EXTECH®
INSTRUMENTS
A FLIR COMPANY

Celebrating Our 40th Anniversary

401012 Outdoor Temperature Alarm

Audible Alarm alerts user when Temperature exceeds the setpoints

- Displays indoor/outdoor temperature
- Single or Dual point audible alarm (external sensor)
- Range: -58.0 to 158.0°F
  Basic accuracy: ±1.8°F accuracy
  Resolution: 0.1°F
- Dimensions: 2.75x2.75" (70x70mm); Weight: 3oz (85g)
- 1 year warranty
- Complete with internal plus 10ft (3m) weatherproof temperature sensor with adhesive backing, stand, one AAA battery, and screws for wall mounting

ORDERING	
401012	Outdoor Temperature Alarm

401014 Indoor/Outdoor Thermometer

Built-in memory stores Minimum and Maximum Temperature readings

- Large LCD displays 1" (25mm) digits for indoor/outdoor temperature
- Indoor Range: 14 to 140°F (-10 to 60°C)
  Outdoor Range: -58 to 158°F (-50 to 70°C)
  Basic accuracy: ±1.8°F /1°C
  Resolution: 0.1°F/°C
- Dimensions: 4.4x4x0.9" (112x102x22mm); Weight: 6.5oz (186g)
- 1 year warranty
- Complete with weatherproof temperature sensor with 9.6ft (3m) thin cable, stand, AAA battery, and wall mounting bracket

ORDERING	
401014	Big Digit Indoor/Outdoor Thermometer

39240 Waterproof Thermometer

Pocket-size with MAX/MIN recording

- 2.75" (70mm) Stainless steel stem
- Data Hold and Auto power off
- Range: -40 to 392°F (-40 to 200°C)
  Basic accuracy: ±2°F/1°C
  Resolution: 0.1°/1° resolution
- Dimensions: 5.9x0.8x0.7" (150x20x18mm); Weight: 0.7oz (20g)
- 1 year warranty
- Complete with one LR44 button battery and protective cover

ORDERING	
39240	Waterproof Thermometer

392050 Penetration Dial Thermometer

Sharp stainless steel probe measures temperature in air, liquids, and semi-solids

- 5" (130mm) stainless steel probe with 2" (54mm) dial
- Range: -58 to 302°F (-50 to 150°C)
  Basic accuracy: ±2°F/1°C
  Resolution: 0.1°/1° resolution
- ON/OFF switch saves battery life
- Auto Power off after 1 hour
- Weight: 1oz (29g)
- 1 year warranty
- Complete with 1.5V LR44 battery

ORDERING	
392050	Penetration Dial Thermometer

480846 8GHz RF EMF Strength Meter

High frequency radiation measurement from 10MHz to 8GHz

- For electromagnetic field strength measurement including mobile phone base station antenna radiation, RF power measurement for transmitters, WAN detection/installation, wireless communication applications (CW, TDMA, GSM, DECT) and microwave leakage
- Non-directional (isotropic) measurement with 3-channel (triaxial) measurement probe
- Max Hold and Average functions
- Manual store/recall up to 99 sets
- Level exceed audible alarm with user selectable threshold
- 1 year warranty
- Complete with 9V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	10MHz to 8GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20mV/m to 108.0 V/m
	53µA/m to 286.4mA/m
	1µW/m² to 30.93 W/m²
	0µW/cm² to 3.093 mW/cm²
Audible Alarm	Adjustable threshold with On/Off
Memory	Manual save/recall of 99 sets
Dimensions/Weight	2.6x2.4x9.7" (67x60x247xmm)/ 8.8oz (250g)

ORDERING	
480846	RF EMF Strength Meter (8.0GHz)

480836 3.5GHz RF EMF Strength Meter

Radiation measurement in the 50MHz to 3.5GHz frequency range

- For electromagnetic field strength measurement of mobile phones, cell phone and base stations, microwave leakage
- Non-directional (isotropic) measurement with 3-channel (triaxial) measurement probe
- User selectable alarm threshold
- Max Hold and Average functions
- 1 year warranty
- Complete with 9V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	50MHz to 3.5GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20mV/m to 108 V/m
	53µA/m to 286mA/m
	1µW/m² to 30.93mW/m²
	0µW/cm² to 3.093mW/cm²
Audible Alarm	Adjustable threshold with On/Off
Memory	Manual save/recall of 99 sets
Dimensions/Weight	2.4x2.4x9.3" (60x60x237mm)/ 7.1oz (200g)

ORDERING	
480836	RF EMF Strength Meter (3.5GHz)

480826 Triple Axis EMF Tester

Three axis (X,Y, Z) electromagnetic field measurement

- Designed to provide user a quick, reliable and easy way to measure EMF radiation levels around power lines, electrical appliances and industrial devices
- Wide ranges (3 ranges of µTesla or mGauss)
- Calibrated to measure EMF radiation at wide bandwidths from 30Hz to 300Hz
- Big digit LCD display with Data hold
- Easy to use remote probe
- 1 year warranty
- Complete with sensor with 3ft (930mm) cable, 9V battery, and hard carrying case

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
µTesla	20µTesla	0.01µTesla	±4%
	200µTesla	0.1µTesla	±5%
	2000µTesla	1µTesla	±10%
mGauss	200mGauss	0.1mGauss	±4%
	2,000mGauss	1mGauss	±5%
	20,000mGauss	10mGauss	±10%
Number of Axis	3-axis X, Y, Z direction		
Bandwidth	30Hz to 300Hz		
Sampling Time	Approx. 0.4 second		
Power Current	Approx. DC 2.7mA		
Dimensions	2.6x1.2x 7.6" (68x30x195mm)		

ORDERING	
480826	Triple Axis EMF Meter

480823 EMF/ELF Meter

Measure electromagnetic field radiation levels from fans, electrical appliances, wiring, and power lines

- ELF frequency bandwidth of 30 to 300Hz
  Single axis - sampling 2.5 times per second
- Large 1/2" LCD (1999 count) display of Electromagnetic Field (EMF) level in milliGauss or microTesla
- Accurate measurements to 4% over a measuring range of 0.1 to 199.9mGauss (0.01 to 19.99µTesla)
- Dims: 5.2x2.8x1" (132x71x25mm); Weight: 6oz (170g)
- 1 year warranty
- Complete with 9V battery

ORDERING	
480823	Electromagnetic Field Meter
409992	Soft pouch carrying case

MINI INFRARED THERMOMETERS

Tough, Reliable and Accurate

Extech infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. With unrivaled distance ratios, temperature ranges, and laser targeting options, Extech offers IR thermometers for every application.

IR Thermometers

Choose the best InfraRed Thermometer to fit your application needs by selecting the proper measurement range, field of view, resolution, and accuracy. Applications include industrial plant maintenance, HVAC/R, electrical contracting, boiler/steam systems, automotive, foodservice, laboratory, metallurgy and more.

IR100 446°F (230°C), 1:1, Mini IR Thermometer

Mini size design for the ultimate convenience and portability

- Measures non-contact surface temperature up to 446°F (230°C)
- Economical mini size design for convenience
- Automatic Data Hold when measure button is released
- Max Hold or Min Hold
- Lock feature for continuous scanning
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- Complete with CR2032 3V battery

IR201 518°F (270°C), 6:1, Pocket Laser IR Thermometer

Handy troubleshooting thermometer with laser pointer

- Measures non-contact surface temperature up to 518°F (270°C)
- Adjustable high alarm
- Economical small pocket size design for convenience
- Built-in laser pointer identifies target area
- Data Hold and Min/Max Hold
- Lock mode for continuous scanning
- Auto power off
- Adjustable emissivity for better accuracy on different surfaces
- Complete with two AAA batteries and pouch case

SPECIFICATIONS	IR100	IR201 N
IR Temperature (Non-contact)	-34 to 446°F (-33 to 230°C)	-4 to 518°F (-20 to 270°C)
Basic Accuracy	±(2.5%rdg) or ±5°F/2.5°C	±(2.5%rdg±3°F/2°C)
Max. Resolution	0.1°F/°C	0.1°F/°C
Emissivity	0.95 fixed	0.10 to 1.0 adjustable
Field of view (Distance to Target)	1:1	6:1
CE approved	Yes	Yes
Dimensions	3x1.6x0.7" (75x40x18mm)	3.7x2x1" (94x51x25mm)
Weight	1.5oz (43g)	2.7oz (76g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

42500 500°F (260°C), 6:1, Compact Laser IR Thermometer

Compact thermometer measures up to 500°F (260°C)

- Built-in laser pointer identifies target area
- Backlighting
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- Complete with 9V battery and pouch case

IR400 630°F (332°C), 8:1, Compact Laser IR Thermometer

Compact thermometer measures up to 630°F (260°C) with MIN/MAX readings

- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- Backlighting
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- MAX/MIN features display highest and lowest values
- Complete with 9V battery and pouch case

42510A 1200°F (650°C), 12:1, Compact Laser IR Thermometer

Compact thermometer measures up to 1200°F (650°C) with high accuracy

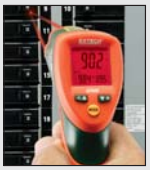
- Adjustable high/low visual and audible alarm
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- Backlighting
- Over-range indicator
- Automatic Data Hold when trigger released
- Auto power off
- Complete with 9V battery and pouch case

42500 N	IR400 N	42510A N	SPECIFICATIONS
-4 to 500°F (-20 to 260°C)	-4 to 630°F (-20 to 332°C)	-58 to 1200°F (-50 to 650°C)	IR Temperature (Non-contact)
±2% of rdg or ±4°F/±2°C (whichever is greater)	±2% of reading +4°F/2°C	±(1% of reading + 2°F/1°C)	Basic Accuracy
1°F/°C	0.1°F/°C	0.1°F/°C; 1°F/°C	Max. Resolution
0.95 fixed	0.95 fixed	0.1 to 1.00 Adjustable	Emissivity
6:1	8:1	12:1	Field of view (Distance to Target)
Yes	Yes	Yes	CE approved
3.2x1.7x6.7" (82x44x170mm)	3.2x1.6x6.3" (82x42x160mm)	3.2x1.6x6.3" (82x42x160mm)	Dimensions
4.9oz (140g)	6.3oz (180g)	6.4oz (180g)	Weight
3 years	1 year	3 years	Warranty

Set Yourself Apart from the Competition

"I love the 42512's ability to adjust emissivity, proving to a client I am more accurate than the competition. The dual laser makes a visual measurement exact and it's very impressive to customers, giving me more credibility."

Norman D., Alberta, Canada



Display color changes indicating if reading is within range

42509 Dual Laser, 950°F (510°C), 12:1, IR Thermometer with Color Alert

Fast responding, programmable alarm with red or blue display and audible alarm

- Great for processes that require temperature control and monitoring
- Fast, accurate measurements at 12" where the two lasers converge with 12:1 field of view
- Blue backlit dual LCD display changes to Red when reading exceeds High or Low set points
- Fast 150 millisecond instantaneous response for capturing spikes in temperature
- Max Hold
- Lock function for continuous readings
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- Double molded housing
- Complete with case and 9V battery

42512 Dual Laser, 1832°F (1000°C), 30:1, IR Thermometer

Fast response and accurate measurements

- Dual laser simplifies distance-to-target ratio—no more calculations!
- Accurate measurements at 30" distance
- Fast 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- Lock function for continuous readings
- White backlit dual LCD display
- Adjustable emissivity increases measurement accuracy for different surfaces
- Double molded housing
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- Complete with carrying case and 9V battery

SPECIFICATIONS	42509 N	42512 N
Range	-4 to 950°F (-20 to 510°C)	-58 to 1832°F (-50 to 1000°C)
Basic Accuracy	±(1% of rdg + 2°F/1°C)	±(1% of rdg + 2°F/1°C)
Repeatability	±0.5% or 1.8°F/1°C	±0.5% or 1.8°F/1°C
Max. Resolution	0.1°F/C	0.1°F/°C
Emissivity	0.10 to 1.00 Adjustable	0.10 to 1.00 Adjustable
Field of View (Distance to Target)	12:1	30:1
CE approved	Yes	Yes
Dimensions/ Weight	5.7x4x1.6" (146x104x43mm)/ 5.7oz (163g)	5.7x4x1.6" (146x104x43mm)/ 5.7oz (163g)
Warranty	3 years	3 years

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

42515-T includes Type K Pipe Clamp Temperature probe

42515/42515-T 1472°F (800°C), 13:1, IR Thermometer Type K Input, Memory

Automatic Emissivity Adjustment allows accurate measurement of virtually any surface

- Wide temperature range for IR temperature and type K thermocouple measurements
- Automatic emissivity adjustment (for temperatures 212°F or higher)
- Stores up to 20 data points
- Adjustable high/low visual and audible alarm
- MAX/MIN/AVG/DIF display highest, lowest, average, and MAX minus MIN values
- LCD display with backlight
- Built-in laser pointer
- Data Hold, Auto power off, and Low battery indication
- **42515**: Includes 9V battery, general purpose type K bead wire probe, and soft case **42515-T**: Includes 42515 and TP200 pipe clamp temperature probe (-4 to 200°F/-20 to 93°C)

42540 1400°F (760°C), 16:1, with Alarm, IR Thermometer

16:1 distance to target ratio, rugged thermometer

- High Temperature range from -58° to 1400°F (-50 to 760°C)
- 16 to 1 distance to target ratio
- Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- Adjustable emissivity for better accuracy on different surfaces
- MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large backlit display
- Built-in laser pointer
- Automatic Data Hold
- Auto power off
- Complete with 9V battery and hard carrying case

42545 1832°F (1000°C), 50:1, with Alarm, IR Thermometer

50:1 distance to target ratio

- Highest 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- Widest Temperature range from -58 to 1832°F (-50 to 1000°C)
- Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- Adjustable emissivity for better accuracy on different surfaces
- MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large backlit display
- Built-in laser pointer
- Automatic Data Hold
- Auto power off
- Complete with 9V battery and hard carrying case

■ 42515 N | ▲ 42515-T N	42540 N	42545 N	SPECIFICATIONS
IR: -58 to 1472°F (50 to 800°C); Type K: -58 to 2498°F (-50 to 1370°C)	-58 to 1400°F (-50 to 760°C)	-58 to 1832°F (-50 to 1000°C)	Range
IR: ±2%rdg or 4°F(2°C); Type K: ±1.5%rdg + 2°F/1°C	±2%rdg or 4°F (2°C) whichever is greater<932°F (500°C); ±(2.5%rdg + 5°)> 932°F (500°C)	2%rdg + 4°F/2°C<932°F (500°C); 3% + 9°F/4°C>932°F (500°C)	Basic Accuracy
±0.5% or ±1.8°F/1°C	±0.5% or ±1.8°F/1°C	±0.5% or ±1.8°F/1°C	Repeatability
0.1°F/°C	0.1°F/°C	0.1°F/°C	Max. Resolution
0.1 to 1.00 Adjustable	0.1 to 1.00 Adjustable	0.1 to 1.00 Adjustable	Emissivity
13:1	16:1	50:1	Field of View (Distance to Target)
Yes	Yes	Yes	CE approved
3.2 x1.6x6.3" (82x42x160mm)/ 6.4oz (180g)	3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)	3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)	Dimensions/ Weight
3 years	3 years	3 years	Warranty

42570 High Temperature IR Thermometer

Fast, easy-to-use, dual laser pointer for non-contact temperature readings plus Type K input for contact Temperature

CE

Fast response (100mS) with highest accuracy at point where dual lasers converge plus Type K input and USB interface

- High 50:1 distance to target ratio measures smaller surface areas at greater distances
- Dual Laser Targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 0.10 second response time
- Tripod mounting feature and Lock function for continuous measurements
- Stores up to 100 readings
- White backlit LCD with bargraph
- MAX/MIN/AVG/DIF functions
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- Complete with general purpose Type K bead wire probe, USB cable and PC software, tripod, 9V battery and case; 3 year warranty

(See p. 40, 41, and 74 for additional optional Type K Thermocouple probes)

SPECIFICATIONS	
Laser Convergence Distance	50" (127cm)
IR Temperature Range	-58 to 3992°F (-50 to 2200°C)
Repeatability	±0.5% or 1.8°F/1°C
Basic Accuracy	±(1% of rdg + 2°F/1°C)
Max resolution	0.1°F/°C
Emissivity	0.10 to 1.00 Adjustable
Field of View (Distance to Target)	50:1
Type K Range	-58 to 2498°F (-50 to 1370°C)
Dimensions/ Weight	8x6.1x2" (204x155x52mm)/ 11.3oz (320g)

ORDERING	
42570 N	50" Distance Dual Laser InfraRed Thermometer

42560 IR Thermometer with Wireless PC Interface

CE

Type K Thermometer

Continuous wireless data transfer to a PC

Wireless USB interface transmits temperature data to a PC

- Place meter on the Base to wirelessly transmit continuous readings to the Remote Receiver connected to a PC via USB cable
- Built-in laser pointer and high 30:1 distance to target ratio
- Tripod mounting feature and Lock function for continuous measurements
- Stores up to 20 readings
- Manual/Automatic emissivity, MAX/MIN/AVG/DIF, and Type K temperature functions
- High/Low set points with audible alarms
- Data Hold, Auto power off with disable function, low battery indication, 1mV/°F analog output
- Complete with Transmitter Base, Remote Receiver with USB cable, general purpose Type K bead wire probe, tripod, analog output cable, PC software, 9V battery, AC adaptor, and hard case; 3 year warranty

(See p. 40, 41, and 74 for additional optional Type K Thermocouple probes)

SPECIFICATIONS	
IR Range	-58 to 1922°F (-50 to 1050°C)
Type K Range	-58 to 2498°F (-50 to 1370°C)
Repeatability	±0.5% or ±1.8°F/1°C
Basic Accuracy	IR: ±2% or ±4°F/2°C ; Type K: ±1.5% ±5°F/3°C
Max. Resolution	0.1°F/°C
Emissivity	0.1 to 1.00 Adjustable
Field of View (Distance to Target)	30:1
Dimensions/Weight	3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)

ORDERING	
42560 N	IR Thermometer w/Wireless PC Interface (915MHz)
42560-E N	IR Thermometer w/Wireless PC Interface (433MHz)

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

VIR50 Digital Laser Video IR Thermometer

NEW CE

Available Q4, 2011

2.2" Color TFT LCD and Built-in Camera with a microSD card for capturing images (JPEG) and video for viewing on your PC

- Dual laser indicates ideal measuring distance where the two laser points converge to a 1" target spot
- Fast 150 millisecond response time
- Color LED bargraph for viewing trends
- Body Temperature Function for quickly detecting elevated body (forehead) temperature
- Type K Thermocouple input
- Air Temperature and Relative Humidity measurement
- Adjustable emissivity increases measurement accuracy for different surfaces
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- MAX/MIN/AVG/DIF functions
- Trigger lock function for continuous readings
- USB interface
- Auto power off
- Double molded housing
- Complete with microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty
  (See p. 40, 41, and 74 for additional optional Type K Thermocouple probes)

SPECIFICATIONS	
Laser Convergence Distance	50" (127cm)
IR Temperature Range	-58 to 3992°F (-50 to 2200°C)
Repeatability	±0.5% or 1.8°F/1°C
Basic Accuracy	±(1% of rdg + 2°F/1°C)
Max resolution	0.1°F/°C
Emissivity	0.10 to 1.00 Adjustable
Field of View (Distance to Target)	50:1
Type K Temperature Range	-58 to 2498°F (-50 to 1370°C)
Air Temperature Range	32 to 122°F (0 to 50°C)
Relative Humidity	0 to 100%RH
Dimensions	7.4x6.0x2.2" (189x152x57mm)
Weight	17.4oz (494g)

ORDERING	
VIR50 N	Dual Laser Video IR Thermometer
BATT-37V	Rechargeable 3.7V battery

Large 2.2" color video LCD displays measurement area with temperature/humidity, min/max/avg, date, and time stamp

Upload images and videos to a PC or laptop for further analysis or use for report documentation.

More Capabilities for Better Diagnostics

Our thermocouple thermometers deliver accurate temperature readings and easy, one-button Delta-T calculations. With high/low alarms, dual and triple displays, data functions, and datalogging, Extech expands your problem-solving capabilities.

TP882 Type K Penetration Probe

TP200/TP400 Pipe Clamp Probes

ACCESSORIES	
TP200	Type K Clamp Probe (-4 to 200°F)
TP400	Type K High Temperature Clamp Probe (-4 to 450°F)
TP870	Type K Bead wire Probe (-40 to 482°F)
TP882	Type K Penetration Probe (-50 to 1000°F)
872502	Type J Bead Wire Probe (-328 to 392°F)
801515	Type J, 4" (100mm) General Purpose Temperature Probe (-328 to 842°F)
409996	Soft Vinyl Pouch Carrying Case (for EA15)

See p. 40-41 for additional temperature probes.

TM100 Type J/K Single Input Thermometer

Side-mounted controls allow for convenient one-handed operation

- Large backlit LCD display
- Wide temperature range with 0.1°/1° resolution
- Readout in °F, °C, or K (Kelvin)
- Data Hold function freezes reading on display
- Max/Min/Avg readings with relative time stamp
- Offset key used for zero function to make relative measurements
- Auto Power off with disable feature
- Complete with general purpose Type K bead wire temperature probe and 9V battery. (Optional temperature probes available on left accessories chart and pages 40-41)

TM300 Type J/K Dual Input Thermometer

Dual inputs allow for calculation of differential temperature readings

- Dual inputs and displays T1, T2, T1-T2 differential, plus Min, Max, Avg
- Side-mounted controls allow for convenient one-handed operation
- Large backlit LCD display
- Wide temperature range with 0.1°/1° resolution
- Readout in °F, °C, or K (Kelvin)
- Data Hold function freezes reading on display
- Max/Min/Avg readings with relative time stamp
- Offset key used for zero function to make relative measurements
- Auto Power off with disable feature
- Complete with two Type K bead wire temperature probes, three AAA batteries, and case. (Optional temperature probes available on left accessories chart and pages 40-41)

SPECIFICATIONS	TM100 N	TM300 N
Single or Dual Input	Single	Dual
Type K °F (°C)	-328 to 2501°F (-200 to 1372°C)	-328 to 2501°F (-200 to 1372°C)
Type J °F (°C)	-346 to 2012°F (-210 to 1100°C)	-346 to 2012°F (-210 to 1100°C)
Basic Accuracy	±0.15% rdg	±0.15% rdg
Resolution	0.1°/1°	0.1°/1°
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	8.7x2.5x1.1" (220x 63 x 28mm)	8.7x2.5x1.1" (220x 63 x 28mm)
Weight	7oz (200g)	7oz (200g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

EA11A EasyView® Type K Single Input Thermometer

Large dual LCD display with 0.3% accuracy and memory

- Simultaneously displays current temperature and Max/Min/Avg or stored memory location
- Selectable units of °F and °C
- Manually store/recall up to 150 readings
- Data Hold and Auto power off
- Records MAX /MIN/AVG readings for later recall
- Complete with built-in stand, protective holster, general purpose Type K bead wire probe, and 6 AAA batteries. (Optional temperature probes available on p. 40, 41, and 74)

EA10 EasyView® Type K Dual input Thermometer with Dual readings

Big backlit display with relative and elapsed time indication

- Displays [T1 and T2] or [T1-T2 and T1] or [T1-T2 and T2]
- Selectable units of °C/°F or Kelvin
- Timer function displays elapsed time plus the time when MAX/MIN readings are taken
- OFFSET key used for zero function to make relative measurements
- Data hold and Auto power off
- Complete with built-in stand, protective holster, two general purpose Type K bead wire temperature probes, and 6 AAA batteries. (Optional temperature probes available on p. 40, 41, and 74)

EA15 EasyView® 7 Thermocouple Datalogger

Internal memory stores up to 8800 data sets

- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit display
- Stores Time, T1 and T2
- Manual push-button datalogging or automatic with programmable sample rate of 3 to 355 seconds per reading
- Manual record/recall of data
- Data Hold and Auto power off
- MAX/MIN/AVG or MAX/MIN with elapsed time
- Complete with two general purpose Type K bead wire temperature probes, Windows® compatible software, RS-232 cable, protective holster, case, and 6 AAA batteries. (Optional temperature probes available on p. 40, 41, and 74)

EA11A N	EA10 N	EA15 N	SPECIFICATIONS
Single	Dual	Dual	Single or Dual Input
-58 to 1999°F (-50 to 1300°C)	-200 to 1999°F (-200 to 1360°C)	-200 to 1994°F (-150 to 1090°C)	Type K °F (°C)
—	—	-200 to 1999.9°F (-150 to 1370°C)	Type J °F (°C)
±0.3% rdg	±0.3% rdg	±0.05% rdg	Basic Accuracy
0.1°/1°	0.1°/1°	0.1°	Resolution
—	—	8800 readings	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.3" (150x72x35mm)	6x2.8x1.5" (152x72x37mm)	5.91x2.83x1.38" (150x72x35mm)	Dimensions
8.3oz (235g)	8.3oz (235g)	8.3oz (235g)	Weight
1 year	1 year	1 year	Warranty

Track Temperature Trouble with Extech

Extech's thermocouple thermometers and dataloggers make it easier than ever to monitor and record up to 4 channels of temperature with easy to read displays and flexible datalogging options.

ACCESSORIES	
TP200	Type K Clamp Probe (-4 to 200°F)
TP400	Type K High Temperature Clamp Probe (-4 to 450°F)
TP870	Type K Bead wire Probe (-40 to 482°F)
TP882	Type K Penetration Probe (-50 to 1000°F)
872502	Type J Bead Wire Probe (-328 to 392°F)
801515	Type J, 4" (100mm) General Purpose Temperature Probe (-328 to 842°F)
409997	Soft Vinyl Pouch Carrying Case (for 421502, 421509)
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

See p. 40, 41, and 74 for details and additional temperature probes.

421502 Type J/K, Dual Input Thermometer with Alarms

Dual J or K input with dual display, relative and programmable High/Low audible alarms

- Widest range with highest 0.05% accuracy
- Rugged design for field use
- Large dual LCD displays T1, T2 or T1-T2, plus Elapsed Time
- Differential temperature between Type J, Type K, or both Type J and K
- MIN/MAX/AVG readings
- Data Hold and Relative functions
- Programmable Hi/Lo audible alarms
- Complete with two general purpose Type K bead wire temperature probes, protective holster with stand, and 9V battery

421509 7 Thermocouple Datalogger with Alarm

Memory stores up to 16 data sets, 1024 maximum data capacity

- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, Time and advanced readouts
- T/C offset adjustment
- REC, MAX, MIN, MAX-MIN, AVG and °C/°F switchable
- Data Hold and Relative function
- Bi-directional RS-232 PC interface
- Programmable Hi/Lo alarm with Real time clock with calendar
- Auto power off with disable feature
- Complete with two general purpose Type-K bead wire temperature probes, Windows® 95/98/ME/NT/2000/XP compatible software, RS-232 cable, protective holster, and 9V battery

SPECIFICATIONS	421502 N	421509 N
Number of Inputs	Dual	Dual
Type K °F (°C)	-328 to 2498°F (-200 to 1370°C)	-328 to 2501°F (-200 to 1372°C)
Type J °F (°C)	-328 to 1922°F (-200 to 1050°C)	-346 to 2192°F (-210 to 1200°C)
InfraRed °F (°C)	—	—
Basic Accuracy	±0.05% rdg	±0.05% rdg
Max. Resolution	0.2°F/0.1°C	0.1°
Datalogging	—	—
PC Interface	—	—
CE approved	Yes	Yes
Dimensions/Weight	7.63x3.6x2.1" (192x91x53mm)/13oz (365g)	7.5x3.6x2.0" (192x91x53mm)/12.8oz (365g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

HD200 Differential Thermometer Datalogger + IR

Automatically stores up to 18,000 readings and takes differential and non-contact surface temperature measurements

- Display [T1, T2, T3 (IR)] or [T1-T2] or [T1-T3] or [T2-T3]
- Records in a continuous mode up to 18,000 readings
- Differential displays for HVAC/ Superheat measurements
- Heavy duty double molded housing
- MAX/MIN/AVG and Data Hold
- USB port and PC software included
- Includes IR Thermometer probe (HD200-IR) with 8:1 distance to target ratio and Laser pointer
- Complete with two general purpose Type K bead wire temperature probes, IR probe, built-in stand, Windows® compatible software, USB cable, hard carrying case, and 9V battery

SD200 3-Channel Temperature Datalogger

Records data on an SD card in Excel® format for easy transfer to a PC for analysis

- Triple LCD simultaneously displays 3 Type-K Temperature channels
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- Complete with (6) AAA batteries, 2G SD card, Univeral AC Adaptor, (3) Type-K bead temperature probes, and mounting bracket

SDL200 4-Channel Datalogging Thermometer

4-Channel datalogging with 6 Thermocouple types (J, K, E, T, R,S) and 2-Channel datalogging with Pt100Ω probes

- Displays [T1, T2, T3, T4] or [T1-T2]
- Datalogs up to 20M records using a 2G SD card
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with real date and time stamp
- Manual store/recall of up to 99 records
- Min/Max and Data Hold functions
- Offset adjustment used for zero function to make relative measurements
- Auto Power off with disable
- Built-in RS-232 interface
- Complete with four general purpose Type K bead wire temperature probes, SD card, hard carrying case, and 6 AA batteries; Optional AC Adaptor 153117 or UA100-240

HD200 N	SD200 N	SDL200 N	SPECIFICATIONS
Dual + IR	Triple	Quad	Number of Inputs
-328 to 2501°F (-200 to 1372°C)	-58 to 2372°F (-100 to 1300°C)	-148 to 2372°F (-100 to 1300°C)	Type K °F (°C)
—	—	-148 to 2192°F (-100 to 1200°C)	Type J °F (°C)
-22 to 1022°F (-30 to 550°C) with IR probe	—	—	InfraRed °F (°C)
±0.15%	±(0.5% + 1°F/ 0.5°C)	±0.4% rdg	Basic Accuracy
0.1°/1°	0.1°	0.1°/1°	Resolution
18,000 readings	20M readings using 2G SD memory card	20M readings using 2G SD memory card	Datalogging
Yes	Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)	PC Interface
Yes	Yes	Yes	CE approved
7.9x2.9x1.9" (201x75x50mm)/ 9.8oz (280g)	5.2x 3.1x1.3" (132x80x32mm)/10oz (285g)	7.2x2.9x1.9" (182X73X48mm)/ 17.6oz (500g)	Dimensions
3 years	1 year	3 years	Warranty

RHT50 Humidity/Temperature/Pressure Datalogger

CE

Monitors Humidity, Temperature and Air Pressure levels in clean rooms, warehouses, storage rooms, freezers, shipping vans, and water damage restoration. USB connector easily plugs into a computer for data analysis

Records up to 10,000 readings of Humidity, Temperature and Pressure

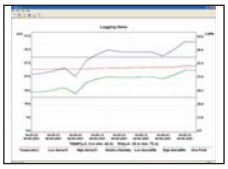
- USB interface for easy set-up and data download
- Selectable data sampling rate from 1 minute to 18 hours
- User-programmable Min/Max alarm thresholds
- Manual and Programmable start modes
- Status Indication via Red/Yellow LED and Green LED
- Complete with 3.6V Lithium battery, mounting bracket, and Windows® compatible analysis software; 1 year warranty

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Temperature	-40 to 158°F (-40 to 70°C)	0.1°F/°C	±1.8°F/ ±1.0°C
Humidity	0 to 100%RH	0.1%RH	±3.5%RH
Air Pressure	13.7 to 15.2psi, 950 to 1050hPa, 95 to 105kPa, 0.9 to 1.0bar	0.1	±0.25% FS
Datalogging interval	1 second to 18 hours		
Memory	10,000 points		
Dimensions/Weight	5.1x1.1x0.98" (130x30x25mm)/ 1oz (20g)		

ORDERING	
RHT50	Humidity/Temperature/Pressure Datalogger
42299	3.6V Lithium Battery (pk of 2)

RHT10/TH10 Humidity and Temperature USB Dataloggers

CE



Monitors Temperature and Humidity (RHT10) levels. USB connector easily plugs into a computer for data analysis using the included software

Two models to choose from with USB interface for easy data download

- **Model RHT10** datalogs 16,000 Temperature/ 16,000 RH readings; Dew point indication via Windows® compatible software; Optional RHT10-SW software for RHT10 to calculate Grains Per Pound (grams per kilogram) to 1120GPP (160g/kg)
  Model TH10 datalogs 32,000 Temperature readings
- Selectable data sampling rate: 2s, 5s, 10s, 30s, 1m, 5m, 10m, 30m, 1hr, 2hr, 3hr, 6hr, 12hr, 24hr
- User-programmable alarm thresholds for RH and Temperature
- Humidity: 0 to 100%RH (Model RHT10 only), Accuracy: ±3%RH; Temperature: -40 to 158°F (-40 to 70°C), Accuracy: ±1°F/0.5°C
- 1yr battery life; Dimensions: 5.1x1.1x0.9" (130x30x25mm)/Wt: 1oz (20g)
- Complete with 3.6V Lithium battery, protective USB cap, mounting bracket, and Windows® compatible software for analysis; 1 year warranty

ORDERING	
RHT10	Humidity and Temperature USB Datalogger
RHT10-SW	GPP (g/kg) Software for RHT10
TH10	Temperature USB Datalogger

RHT20 Humidity and Temperature Datalogger

Monitors Humidity & Temperature levels in warehouse, storage rooms, freezers, shipping vans, and offices. USB connector easily plugs into a computer for data analysis.

CE

CALIBRATION TRACEABLE TO NIST

Datalogs 16,000 Humidity and 16,000 Temperature readings

- USB interface for easy setup and data download to a PC
- Dew point indication via Windows® compatible software (included)
- Selectable data sampling rate: 2s, 5s, 10s, 30s, 1m, 5m, 10m, 30m, 1hr, 2hr, 3hr, 6hr, 12hr, 24hr
- User-programmable alarm thresholds for RH and Temperature
- LCD displays current readings, Min/Max, and alarm status
  Humidity: 0 to 100%RH, 0.1%RH resolution, Accuracy: ±3%RH;
  Temperature: -40 to 158°F (-40 to 70°C), 0.1°F/°C resolution, Accuracy: ±1.8°F/1°C
- 3 month battery life; Dimensions: 3.7x1.9x1.2" (94.4x48.9x31.2mm)/Wt: 3.2oz (90.7g)
- Complete with 3.6V Lithium battery, mounting bracket with combination lock, and Windows® compatible analysis software; 1 year warranty

ORDERING	
RHT20	Humidity and Temperature Datalogger

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

RH520A Humidity and Temperature Chart Recorder

LabView based PC software included

Best value graphical datalogger in the market that's easy to set up & operate

- Simultaneous numerical & graphical display of Humidity (10.0 to 95.0%) and Temperature (-20.0 to 140.0°F /-28.0 to 60.0°C) readings, plus Time and Date
- Basic Accuracy: ±3% Relative Humidity; ±1.8°F (±1°C
- Includes LabView™-based software calculates and graphs Dew Point, Wet Bulb, and GPP (grains per pound))
- Large dual graphical LCD displays with adjustable vertical and horizontal resolution
- Internal memory records up to 49,000 data points and can be transferred to a PC
- Audible and visual alarm with Hi/Low setpoints
- Output socket used with optional external alarm module
- Dimensions: 5x7.7x0.9" (129x195x22mm); Weight: 12.6oz (357g)
- Complete with built-in stand, detachable probe with 3ft (1m) cable, RS-232 cable, RS-232 to USB adaptor, LabView-based PC software, 100-240VAC 50/60Hz adaptor, and 3 AA batteries; 1 year warranty

ORDERING	
RH520A N	Humidity+Temperature Chart Recorder (110V adaptor)
RH520A-220 N	Humidity+Temperature Chart Recorder (220V adaptor)
RH520A-240 N	Humidity+Temperature Chart Recorder (240V adaptor)
RH522	Replaceable Humidity/Temperature Probe
SL123	AC Alarm Relay Module 9ft (3m) cable
SL124	DC Alarm Relay Module 9ft (3m) cable

42280 Humidity and Temperature Datalogger

Records up to 16,000 readings with USB interface for downloading to a PC

- Programmable from keypad or PC, Selectable data sampling rate, and User programmable audible and visual alarms
- Measurement ranges: 0 to 100% RH and -4 to 144°F(-20 to 70°C); Resolution: 0.1%RH, 0.1°F/°C; Basic accuracy: ±3% RH, ±1°F /0.6°C
- Dimensions/Weight: 4.75x3.5x1.5" (120.7x88.9x38.1mm)/ 5.7oz (163g)
- Complete with Windows® compatible software, USB cable, 110V AC adaptor, and four AA batteries; 1 year warranty

ORDERING	
42280	Temperature and Humidity Datalogger
RH300-CAL	33% and 75%RH Calibration Kit

42265/42275 Humidity and Temperature Datalogger Kits

Kits Include Windows® compatible software and docking station
42265 — includes one 42260 datalogger.
42275 — includes one 42270 datalogger.

Compact, powerful and easy to use with PC interface

- **42265** Waterproof (IP65) Temperature (-40 to 185°F /-40 to 85°C) Datalogger Kit records up to 8000 readings
- **42275** Water resistant Humidity (0 to 100% RH) and Temperature (-40 to 185°F / -40 to 85°C) Datalogger Kit records up to 16,000 readings (8,000 readings/parameter)
- Resolutions: 0.1%RH, 0.1°F/°C; Basic accuracy: ±3%RH, ±1°F (±0.6°C)
- Real time clock with date and time and Logs data for days, weeks or months
- Three start methods: Scheduled, immediate or magnetic
- Multiple Dataloggers (42260 or 42270) can be programmed and data downloaded from one single docking station
- Programmable sampling rate from 1sec to 2hrs plus Hi/Lo limits with alarm indication
- 42265 or 42275 — 4.9x3.8x2" (123.8x95.3x51mm); 9oz (254g)
- 1 year warranty

ORDERING	
42275	Humidity/Temperature Datalogger Kit with PC Interface
42270	Humidity/Temperature Datalogger for 42275
42265	Temperature Datalogger Kit with PC Interface
42260	Temperature Datalogger for 42265
42299	Replacement 3.6V Lithium batteries (2pk)
USB100	RS-232 to USB Adaptor

Must-Have Tools for IAQ

Regulating humidity and temperature is a critical part of ensuring indoor air quality (IAQ) in residential, commercial offices, manufacturing and healthcare. Extech psychrometers are a key tool for rapid diagnostics and IAQ problem-solving.

ACCESSORIES

RH300-CAL	33% and 75%RH Calibration Kit for RH300
RH350-CAL	33% and 75%RH Calibration Kit for RH350
TP890	Thermistor Temperature Probe for RH300
589250	RS-232 PC cable for RH350
USB100	RS-232 to USB Adaptor
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

RH305 kit

RH300/RH305 Hygro-Thermometer Psychrometer

Temperature Probe for differential measurements

- Simultaneous display of %RH, Temperature and Dew Point or Wet Bulb or Probe Temperature
- Calculates T1-T2 differential (Air Temperature minus External Probe Temperature) using optional probe (TP890) and T2-Dew Point
- Data Hold and Auto power off
- MAX/MIN readings
- Optional TP890 probe for Differential Temperature
- **Model RH300** includes 2 AAA batteries
- **Model RH305** kit includes RH300, TP890 external temperature probe, RH300-CAL calibration bottles and carrying case

RH350 Dual Input Hygro-Thermometer Psychrometer

Two Type K External Probe inputs for Superheat plus memory

- Superheat differential measurements: T1-T2, Air-T1, and T1-Dew Point
- Backlit LCD displays 3 parameters: %RH and Temperature with either Dew Point, Wet Bulb or Type K
- RS232 interface – 407752 software available for download at www.extech.com and optional cable 589250 sold separately
- Stores up to 99 data points
- MAX/MIN with time stamp+AVG
- Data Hold, Auto power off
- Complete with 2 general purpose Type K bead wire probes, 4 AAA batteries

SPECIFICATIONS	■ RH300 N | ▲ RH305 N	RH350 N
Sensor Type	Capacitance	Capacitance
Dew Point	-90.4 to 122°F (-68.0 to 49.9°C)	-90.4 to 122°F (-68.0 to 49.9°C)
Wet Bulb	-6.9 to 122°F (-21.6 to 49.9°C)	-6.9 to 122°F (-21.6 to 49.9°C)
Humidity (Basic Accuracy)	0 to 100%RH (±3%RH)	0 to 100%RH (±3%RH)
Mixing Ratio	—	—
Internal Temperature (Basic Accuracy)	-4 to 122°F /-20 to 50°C (±1.8°F/±1°C)	-4 to 122°F/-20 to 50°C (±1.8°F/±1°C)
External Temperature (Basic Accuracy)	Thermistor: -4 to 158°F/-20 to 70°C (±1.8°F or ±1°C)	Type K: -328 to 2498°F/-200 to 1370°C (±0.3% or 1.8°F or ±1°C)
IR Temperature (Basic Accuracy)	—	—
Emissivity	—	—
Field of View	—	—
PC Interface	—	Optional software & cable (589250)
Memory/Datalogging	—	99 readings
CE Approved	Yes	Yes
Dimensions/Weight	7x1.9x1" (178.5x48.4x24.7mm)/ 3.3oz (95g)	9x2.2x1.7" (230x57x44)/ 5.3oz (153g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

RH390/RH490 Precision Hygro-Thermometer Psychrometers

Highest 2% RH accuracy with Fast 30 second Response Time

- Dual backlit display
- Simultaneous display of:
  - Humidity/Temperature
  - Humidity/Dew Point
  - Humidity/Wet Bulb
- Fast 30 second response time
- Slim design with rubberized sides for better grip and for one hand operation
- **Model RH490** measures Grains Per Pound (grams per kilogram) to 1120GPP (160g/kg)
- Complete with carrying case and 9V battery

HD500/HD550 Psychrometers + 30:1 InfraRed Thermometer

Combination Humidity Meter, Type K thermometer, and InfraRed Thermometer

- Built-in IR Thermometer for non-contact surface temperature measurements
- Type K Thermometer for contact temperature measurement
- Highest 2% RH accuracy
- Large triple LCD backlit display
- USB port includes PC software
- Auto power Off
- **Model HD550** measures Grains Per Pound (grams per kilogram) to 999GPP (160g/kg)
- Complete with general purpose Type K bead wire probe, PC software,USB cable, built-in stand, case, & 9V battery

SDL500 Hygro-Thermometer/ Datalogger

Date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Humidity, Temperature, Dew Point & Wet Bulb functions
- Selectable data sampling rate: 1 to 3600 seconds
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Includes 6 x AA batteries, SD card, case and Humidity probe; Optional AC Adaptor 153117 or UA100-240, also see p. 40, 41, and 74 for optional Type K and J Thermocouple probes

■ RH390 N | ▲ RH490 N	■ HD500 N | ▲ HD550 N	SDL500 N	SPECIFICATIONS
Capacitance	Capacitance	Capacitance	Sensor Type
-22 to 199°F (-30 to 100°C)	-90.4 to 140°F (-68 to 60°C)	-13.5 to 120.1°F (-25.3 to 48.9°C)	Dew Point
32 to 176°F (0 to 80°C)	-6.88 to 140°F (-21.6 to 60°C)	-6.9 to 122°F (-21.6 to 50°C)	Wet Bulb
0 to 100%RH (±2%RH)	0 to 100% (±2%RH)	5% to 95% (±3%RH)	Humidity (Basic Accuracy)
■ No | ▲ 0 to 1120 GPP (grains per pound); 0 to 160 g/kg (grams per kilogram)	■ No | ▲ 0 to 999 GPP (grains per pound); 0 to 160 g/kg (grams per kilogram)	—	Mixing Ratio
-22 to 199°F/-30 to 100°C (±1.8°F/1°C)	-14 to 140°F/-10 to 60°C (±4°F/±2°C)	32 to 122°F/0 to 50°C (±1.8°F/±1°C)	Internal Temperature (Basic Accuracy)
—	Type K: -148 to 2501°F/-100 to 1372°C (±3%)	Type K: -148 to 2372°F /-100 to 1300°C Type J: -148 to 2192°F/-100 to 1200°C ±(0.4% + 1.8°F/1°C)	External Temperature (Basic Accuracy)
—	-58 to 932°F/-50 to 500°C (±2% or ±4°F/±2°C)	—	IR Temperature (Basic Accuracy)
—	0.95 fixed	—	Emissivity
—	30:1	—	Field of View
—	Yes	Optional 407001 software (see p. 106)	PC Interface
—	—	20M readings using 2G SD memory card	Memory/Datalogging
Yes	Yes	Yes	CE approved
7.8x1.7x1.3" (200x45x33mm)/7oz (200g)	10x2.9x2" (255x75x50mm)/12.2oz (350g)	7.2x2.9x1.9" (182X73X48mm)/23oz (655g)	Dimensions/Weight
1 year	3 years	3 years	Warranty

Improve Indoor Air Quality with Extech

Accurately diagnosing problems related to barometric pressure, humidity and temperature levels is essential to effective HVAC/mechanical repair. Extech makes it easy with durable, accurate, and easy-to-use environmental meters.

ACCESSORIES	
RH300-CAL	33% & 75% RH Calibration Kit for 445580
407752	Software and Cable for HT30
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

445580 Humidity/ Temperature Pen

Compact, Digital Hygro-Thermometer, ideal for field use

- Simultaneous display of Temperature (°C/°F) and Relative Humidity
- MAX/MIN and Data Hold
- Built-in self calibration utility allows for field calibrations using optional Relative Humidity calibration bottles (RH300-C)
- Complete with meter, pocket clip and 3V lithium battery

HT30 Heat Stress WBGT Meter

Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and direct or radiant sunlight

- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement, and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- In/Out Function displays the WGBT value with or without direct sun exposure
- Auto power off with override
- Built-in RS-232 interface with optional PC software (407752)
- Complete with two AAA batteries

SPECIFICATIONS	445580 N	HT30 N
Sensor Type	Capacitance	Capacitance
Humidity	10 to 90%	0 to 100% RH
Dew Point	—	—
Temperature (Wet Bulb Globe)	—	32 to 122°F (0 to 50°C)
Temperature (Black Globe)	—	-32 to 176°F (-0 to 80°C)
Temperature (Air)	14 to 122°F (-10 to 50°C)	32 to 122°F (0 to 50°C)
Temperature (IR)	—	—
Barometric Pressure	—	—
Basic Accuracy	±5%, ±1.5°	±3%, ±1.1°F/0.6°C
Max. Resolution	0.1%, 0.8°	0.1%, 0.1°
PC Interface	—	Yes
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.7x1.2x1" (145x30x25mm)/ 2.3oz (65g)	10x1.9x1.1" (254x49x30mm)/4.8oz (136g) Ball: 1.6" (40mm) dia, 1.4" (35mm) high
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

RH101 Hygro-Thermometer + IR

Humidity, Air Temperature plus IR for non-contact Temperature measurements

- Large backlit LCD dual display
- Primary and Secondary displays: Primary display is user selectable for IR or Humidity; Secondary displays ambient temperature
- InfraRed thermometer has built-in laser pointer, 8:1 distance to target ratio, and fixed 0.95 emissivity
- Auto power off, MAX and Data Hold
- Remote humidity sensor with 39" (1m) coiled cable measures both humidity and ambient temperature
- Over-range indication
- Complete with built-in stand, holster, Humidity/ Temperature probe, 9V battery, and carrying case

EA20/EA25 EasyView® Hygro-Thermometer and Datalogger

Stores up to 99 or 15,000 readings

- Dual display of Relative Humidity, Temperature, Dew Point and Wet Bulb
- Data Hold, Relative, & MAX/MIN
- Programmable power off timer
- Complete with stand, holster, probe with 39" (1m) cable, 6 AAA batteries, and carrying case; Model EA25 includes Windows® compatible software and cable
- **Model EA20** - Stores up to 99 manual readings for display recall
- **Model EA25 -** Stores up to 15,000 readings for PC download; Programmable Start/Stop datalogging time and sample rate of 1 to 86,000 seconds

SD500/SD700 Humidity/ Temperature Dataloggers plus Barometric Pressure

Records data on an SD card in Excel® format

- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5 to 600 seconds or Auto
- Complete with 6 AAA batteries, 2G SD card, Universal AC Adaptor, and mounting bracket
- **Model SD500** — Dual LCD displays Relative Humidity and Temperature readings
- **Model SD700** — Triple LCD displays Barometric Pressure, Temperature, and Relative Humidity

RH101	■ EA20 N | ▲ EA25 N	■ SD500 | ▲ SD700	SPECIFICATIONS
Capacitance	Capacitance	Capacitance	Sensor Type
10 to 95%	10 to 95%	■ 10 to 95%RH | ▲ 10 to 90%RH	Humidity
—	-91.1 to 139.8°F (-68.4 to 59.9°C)	—	Dew Point
—	—	—	Temperature (Wet Bulb Globe)
—	—	—	Temperature (Black Globe)
-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	32 to 122°F (0 to 50°C)	Temperature (Air)
-58 to 932°F (-50 to 500°C)	—	—	Temperature (IR)
—	—	▲ SD700 only: 10 to 1100hPa; 7.5 to 825mmHg; 0.29 to 32.48 inHg	Barometric Pressure
±3.5%RH; ±2% or ±4°F/2°C (IR); ±3°F/2°C (Air)	±3%RH, ±1.8°F (±1°C)	±4%RH, ±1.8°F (±0.8°C)	Basic Accuracy
0.1%, 0.1°	0.1%, 0.1°	0.1%, 0.1°, 0.1 hPa, 0.1mmHg, 0.01inHg	Max. Resolution
—	■ No | ▲ Yes	Optional 407001 software (see p. 106)	PC Interface
—	99 readings / 15,000 readings	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.95x1.57" (150x75x40mm)/ 7oz (200g)	6x2.8x1.4" (152x72x35mm)/ 8.3oz (235g)	5.2x3.1x1.3" (132x80x32mm)/ 9.9oz (282g)	Dimensions / Weight
1 year	1 year	1 year	Warranty

Find Moisture Problems Fast

Extech offers moisture meters for a variety of industries. For wood and building trades, professionals use Extech pin and pin-less meters. For accurate soil testing as well as agricultural crop testing, trust Extech for specialized moisture meters.

ACCESSORIES	
MO200-PINS	Replacement pins for MO210 (50 pins)
MO220-PINS	Replacement pins for MO220 (50 pins)
MO250-PINS	Replacement pins for MO250 (50 pins)
MO750-P	Replacement Moisture Probe for MO750
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

MO210 Pocket Size Moisture Detector

Large dual graphical LCD displays moisture in wood and other building materials

- 2-in-1 Digital LCD readout and analog bargraph
- Measures Wood Moisture and Building Material Moisture
- Use on wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Self-contained, pocket sized meter with belt clip
- Replaceable threaded measurement electrode pins
- Impact proof housing
- Auto power off conserves battery energy
- Built-in battery check and measurement verification test
- Complete with protective cap, replacement pins, and three CR-2032 button batteries

MO220 Wood Moisture Detector

Specifically designed for monitoring moisture in wood

- Memory contains 8 wood groups with calibrations for approximately 170 species of wood
- Measurements can be taken using the integral pin electrodes or a heavy duty remote probe (included)
- Automatically temperature compensated (ATC) readings when used with the temperature probe (included)
- Built-in calibration check
- Replaceable measurement electrode pins
- User adjustable Auto power off (1 to 9 minutes) with disable
- Low battery indication
- Includes remote moisture probe, Temperature probe, protective cap, replacement pins, pouch case, and 2 AA batteries

SPECIFICATIONS	MO210	MO220
Sensor Type	Contact Pins	Contact Pins
Moisture Content	6 to 44% (Wood); 0.2 to 2.0% (Materials)	6 to 44% (Wood)
Max. Resolution	1% (Wood) / 0.1% (Materials)	±1% (Wood)
Temperature (Air)	—	-31 to 176°F (-35 to 80°C)
Temperature (Type K)	—	—
Dew Point	—	—
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.1x1.6x1.0" (130x40x25mm)	7x1.9x1.2" (180x50x31mm)
Weight	3.5oz (100g)	6.1oz (175g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

NEW

MO257 Pinless Moisture Meter

Fast response pinless moisture readings on tiles, building materials and wood from depth of 0.78" to 1.6"

- Relative pinless moisture reading for non-invasive measurement
- Multifunction backlit triple LCD display
- Pinless measurement depth from 0.78" (20mm) to 1.6" (40mm) below the surface
- High frequency sensing technology
- Automatic Data Hold
- Two adjustable alarm levels with audible beeper and visual (flashing "RISK" or "WET") indicators
- Automatic calibration (in dry air) when meter is powered on
- Low battery indication
- Auto Power off
- Complete with 3 AA batteries and pouch case

MO750 Soil Moisture Meter

Integrated 8" (20cm) Heavy Duty Moisture Probe monitors the moisture level in soil

- Soil moisture content measurement from 0 to 50%
- Easy one-hand operation
- Min/Max records minimum and maximum moisture readings
- Data hold to freeze reading on display
- Water resistant housing
- Replaceable Heavy Duty Moisture Probe (MO750-P)
- Complete with moisture probe, 4 x AAA batteries and sensor cap

NEW

SDL550 Moisture Content Meter

23.7" (600mm) Heavy Duty Stainless Steel Probe measures moisture in Grain, Corn, Rice, Cotton, Paper, and other materials

- Measures Moisture Content, Air Temperature, Dew Point and Type J/K Temperature
- Moisture content measurement from 10 to 95%
- 1 sec sampling rate (approx.)
- Date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Dual display simultaneously displays Moisture Content and Temperature
- Min/Max and Data hold
- Auto power off with disable
- Built-in RS-232 interface
- Complete with Moisture Content Probe with 4.9ft (1.5m) cable, sensor cap, and 9V battery; Optional AC Adaptor 153117 or UA100-240, also see p. 40, 41, and 74 for optional Type K and J Thermocouple probes)

MO257	MO750	SDL550 N	SPECIFICATIONS
Pinless	Integrated Contact Probe	Stainless Steel	Sensor Type
0.0 to 100.0	0 to 50%	10 to 95%	Moisture Content
0.1	0.1%	0.1%	Max. Resolution
—	—	32 to 122°F (0.50°C)	Temperature (Air)
—	—	Type J: -148 to 2192°F (-100 to 1200°C) Type K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
—	—	-13.5 to 120.1°F (-25.3 to 49.9°C)	Dew Point
—	—	Optional 407001 software (see p. 106)	PC Interface
—	—	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
9.25x2.5x1.1" (235x63x28mm)	14.7x1.6x1.6" (374x40x40mm)	Meter: 7.2x2.9x1.9" (182X73X48mm) Probe: 23.7" (600mm) x 0.4" (10mm) dia	Dimensions
7.7oz (218g)	9.4oz (267g)	Meter: 23.1oz (655g); Probe: 16.3oz (461g)	Weight
1 year	1 year	3 years	Warranty

Extech Redefines Moisture Meters

Extech's advanced moisture meters offer much more than moisture readings: Non-invasive, pin-less technology protects work surfaces. Environmental readings (RH, air and surface temperatures, dew point, GPP, vapor pressure, condensation levels) add extensive insight without extra meters. Remote specialty probes expand versatility. And available MeterLink™ technology transmits readings wirelessly to a FLIR infrared camera for accelerated diagnostics.

Optional 1m (EXT-1), 3m (EXT-3), or 5m (EXT-5) telescoping handle for MO265

MO280 Pinless Moisture Meter

Non-invasive moisture content of building materials and wood

- Quickly indicates the moisture content of materials
- Select from 10 wood types and measurement ranges
- LCD displays % moisture of wood or material being tested
- Measurement depth to 0.75" 19mm) below the surface
- Automatic internal test and calibration
- Electro-magnetic testing technology
- Low battery indication
- Complete with 9V battery and pouch case

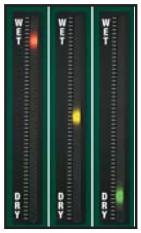
ACCESSORIES	
MO-P1	Replacement Moisture pin probe with 30" (76.2cm) cable and RJ45 Connector
MO100-PINS	20 Replacement pins
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)
Specialty Probes for MO265, MO290, & MO295 (see p. 89)	
MO290-EP	Extension Probe with 30" (76.2cm) cable and RJ45 connector. Includes 4 pins
MO290-HP	Hammer Probe with 30" (76.2cm) cable and RJ45 connector. Includes 4 pins (1.6"/4cm pin depth)
MO290-BP	Moisture Baseboard Probe (Dual fixed flat pins, 4.1"/10.5cm pin length), 30" (76.2cm) cable & RJ45 connector
Telescoping Handles for MO265	
EXT-1	4ft (1.2m) Telescoping Handle
EXT-3	9.8ft (3m) Telescoping Handle
EXT-5	16.4ft (5m) Telescoping Handle

SPECIFICATIONS	MO280
Pinless Moisture	0 to 99% (limited by wood type)
Pin-type Moisture (remote probe)	—
Relative Humidity	—
Temperature (Air)	—
Temperature (IR)	—
Max Resolution	0.1%
Memory	—
CE approved	Yes
Dimensions/Weight	7.6x0.8x1.8" (192x30x45mm)/ 3.8oz (108g)
Warranty	1 year

CALIBRATION TRACEABLE TO NIST

N Indicates products that are availab

NEW



Tri-color LED bargraph

MO260 Combination Pin/Pinless Moisture Meter

Monitor moisture in wood and other building materials with virtually no surface damage

- %WME (wood moisture equivalent) pin moisture reading
- Relative pinless moisture reading for non-invasive measurement
- Digital LCD readout with backlighting feature and tri-color LED bargraph
- Quickly indicates the moisture content of materials
- Pinless measurement depth to 0.75" (22mm) below the surface
- Electro-magnetic sensing technology
- Built-in calibration check
- Replaceable pins
- Low battery indication
- Cap protects pins during storage and can be snapped on to the side of the housing during use
- Complete with 9V battery, replacement pins, protective cap, and pouch case

NEW

MO265 Combination Pin/Pinless Moisture Meter with Remote Probe

Measure moisture in wood or other building materials with pinless or pin type technology

- Remote pin probe included to measure moisture in difficult to access areas
- %WME (wood moisture equivalent) pin moisture reading
- Relative pinless moisture reading for non-invasive measurement
- Digital LCD readout with backlighting feature and tri-color LED bargraph
- Quickly indicates the moisture content of materials
- Pinless measurement depth to 0.75" (22mm) below the surface
- Electro-magnetic sensing technology
- Built-in calibration check
- Replaceable pins
- Low battery indication
- Storage cap protects pins
- Optional Telescoping Handle extends to 4ft (1.2m), 9.8ft (3m), or 16.4ft (5m) for easy reach (see p. 86)
- Complete with 9V battery, pin probe replacement pins, protective cap, remote pin probe (MO-P1) and pouch case; (see p. 89 for specialty moisture probes)

BUILT-IN IR Thermometer

Remote Pin probe included

MO290/MO295 Pinless Moisture Meters + IR Thermometer

Multi-parameter Moisture meters with built-in IR Thermometer

- Pinless measurement depth to 0.75" (19mm) below the surface
- Remote Pin probe measures moisture in hard to reach areas
- IR thermometer measures non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
- Programmable high/low Moisture and Humidity alarms
- Calculation of differential Temperature (IR - DP) to determine condensation point
- Min/Max, Data Hold, Auto power off and low battery indication
- Complete with pin moisture probe, 9V battery, and case; Optional Universal AC adaptor UA100-240. (See p. 89 for specialty moisture probes)

Model MO295 Additional Features

- Memory stores 20 readings
- Displays trending bargraph of moisture levels

MO260	MO265	■ MO290 N | ▲ MO295 N
0 to 99 (relative)	0 to 99 (relative)	0 to 99.9 (Relative)
6.0 to 94.8% WME	6.0 to 94.8% WME	0 to 99.9%
—	—	0 to 99.9% RH
—	—	-20 to 170°F (-29 to 77°C)
—	—	-4 to 392°F (-20 to 200°C)
0.1/0.1%	0.1/0.1%	0.1%, 0.1°F/°C
—	—	■ No | ▲ 20 readings
Yes	Yes	Yes
8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	6.5x2.8x1.5" (165x70x38mm)/ 7.4oz (210g)
1 year	1 year	1 year

MO270 Wireless Pin/Pinless Moisture Meter with METERLiNK™ /BlueTooth®

CE FC *Available Q4 2011*

Detachable pin/pinless sensors transmit data to the display that can be viewed from a remote location up to 65ft (20m)

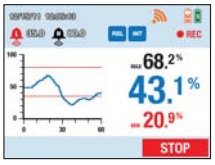
- Full color graphical display
- Display readings from 8 remote sensors on the meter's color LCD
- Receiver can record data from up to 40 remote sensors simultaneously on an SD card
- Trending Mode with graphical representation of live reading for fast scanning of large areas
- Wireless sensor affixes to telescoping handle (4ft/1.2m) for measurements in ceilings or in hard to reach areas; Optional 9.8ft (3m) and 16.4ft (5m) handles available
- Wirelessly transmits moisture and humidity data to your FLIR infrared camera's thermal image
- Use pinless technology for virtually no surface damage or traditional pin-type measurement for applications that require more accurate readings
- %WME (wood moisture equivalent) pin moisture reading
- Visual and audible High/Low alarm modes
- 2 point calibration check built into protective cap
- 1 year warranty
- Complete with 3.7V rechargeable Li-Polymer battery, wireless moisture sensor, external pin probe, replacement pins, telescoping handle (4ft/1.2m), AC adaptor, protective cap, 2G SD card, and hard case

SPECIFICATIONS

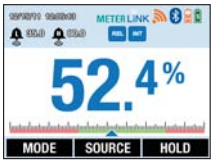
Pinless Range/ Depth	0 to 99.9 (relative)/ 0.75" (22mm)
Pin Range	6.0 to 99.9%
Transmission Frequency	2.4GHz (pin/pinless sensor to display)
Transmission Range	32ft (10m) unobstructed view
Dimensions/ Weight	8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)

ORDERING (SEE P. 89 FOR SPECIALTY MOISTURE PROBES)

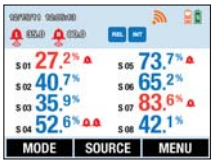
MO270	Combination Pin/Pinless Moisture Meter and wireless sensor
MO270-X	Optional Wireless Moisture Sensor
EXT-1	4ft (1.2m) Telescoping Handle
EXT-3	9.8ft (3m) Telescoping Handle
EXT-5	16.4ft (5m) Telescoping Handle
MO100-PINS	20 Replacement Pins



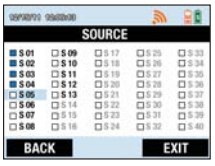
Trend Mode Display



Measurement Mode



Multi-Sensor Mode



Sensor Selection Menu

Wirelessly transmits moisture and humidity data to your FLIR infrared camera to incorporate meter readings with thermal images

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

MO297 Pinless Moisture Meter + IR Thermometer and METERLiNK™ /BlueTooth®

Communicates with FLIR Thermal Imagers

CE FC BUILT-IN IR Thermometer

Measure moisture with non-invasive pinless technology or with remote pin probe and non-contact surface temperature with built-in IR Thermometer

Wirelessly transmits moisture and humidity data to your FLIR infrared camera's thermal image

- Measures moisture content of multiple wood types and building materials with Pinless technology without damaging the surface; Remote Pin-type probe (included) allows for contact moisture readings (3ft/0.9m cable length)
- Wireless communication with FLIR Thermal Imaging Cameras (model specific)
- Pinless measurement depth to 0.75" (19mm) below the surface
- Manually store/recall up to 20 labeled readings
- Large dual display with automatic backlight feature and Fast Analog Bargraph
- Simultaneously displays moisture plus Air Temperature, IR Temperature, or Humidity
- Programmable high/low Moisture/Humidity alarms
- Built-in IR Thermometer measures non-contact surface temperature
- Built-in probe measures Relative Humidity, Air Temperature plus Grains Per Pound (GPP)/(g/kg), Dew Point (DP), Vapor Pressure, and condensation point
- Calculation of differential Temperature (IR - DP) to determine condensation point
- Min/Max, Data Hold, and Auto power off
- 1 year warranty
- Complete with pin moisture probe with cable, 9V battery and pouch case

SPECIFICATIONS	
Pinless Moisture (Non-Penetrating)	0 to 99.9 (Relative); Depth up to 0.75" (19mm)
Pin-type Moisture (probe included)	0 to 99.9%
Max Resolution	0.1, 0.1°F/°C
Humidity	0 to 100%RH
Temperature (Air) / (InfraRed)	Air: -20 to 170°F (-29 to 77°C)/ IR: -4 to 392°F (-20 to 200°C)
Vapor Pressure	0 to 20.0kPA
Dew Point	-22 to 199°F (-30 to 100°C)
Mixing ratio	0 to 999GPP (0 to 160g/kg)
Field of View	8:1 Distance to Target ratio
Emissivity	0.95 fixed
Dimensions/Weight	6.5x2.8x1.5" (165x70x38)/7.4oz (210g)

ORDERING	
MO297 N	Pinless Moisture Meter+IR Thermometer with METERLiNK™/BlueTooth®
UA100-240	Universal AC Adaptor (100-240V)
See below for specialty Moisture Probes	

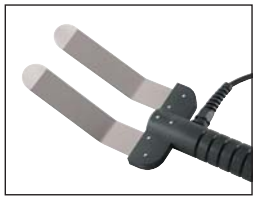
Moisture Probes and Pins

MO-P1

MO290-HP

MO290-EP

MO290-EXT



MO290-BP

Penetrating Moisture Probes for use with select Extech Moisture Meters

- Specialty Moisture probes with RJ45 connector compatible with Extech Moisture Meters MO265, MO270, MO290, MO295, and MO297

ORDERING	
MO-P1	Moisture pin probe with 30" (76.2cm) cable and RJ45 Connector
MO290-BP	Moisture Baseboard Probe (Dual fixed flat pins with 4.1"/10.5cm pin length) with 30" cable
MO290-EP	Extension Probe for Model MO290/295 Moisture Meter with 30" (76.2cm) cable and 4 pins
MO290-PINS-EP	12 Replacement pins (6) 3.5"/8.9cm & (6) 6.5"/16.5cm pin depth) and 2 lock nuts for MO290-EP probe
MO290-EXT	11.8" (30cm) Extenders (set of 2) for MO290-EP probe
MO290-HP	Hammer Probe for Model MO290/295 Moisture Meter includes 4 pins (1.6"/4cm pin depth)
MO290-PINS-HP	20 Replacement pins (1.6"/4cm pin depth), 2 lock nuts for MO290-HP probe
MO220-PINS	50 Replacement pins (0.4"/1cm pin depth) for MO290-P probe

MO290-RK Water Restoration Contractor Kit

A complete solution for the Restoration Contractor

- Use combination moisture meter/thermal hygrometer to capture all ambient conditions as well as moisture levels in one meter. Includes essential probes to measure moisture levels under baseboards, in between walls, and in hard wood and plywood subfloors. Use USB Humidity/ Temperature datalogger for GPP calculations
- Kit includes: MO290, Pin Probe, Hammer Probe, Deep Wall Probe, and Baseboard Probe for contact moisture readings (see p. 89 for details)
- Supplied in a rugged hard carrying case
- **Model MO290** Pinless Moisture Psychrometer + IR Thermometer monitors moisture in wood and building materials with no surface damage. Built-in IR Thermometer for non-contact temperature; Fixed probe measures Air Temperature, RH, Grains Per Pound (GPP), Dew Point (DP), & Vapor Pressure (see p. 87)
- **Model RHT10/RHT10-SW** Humidity/Temperature USB Datalogger + GPP (g/kg) Calculation datalogs 16,000 data (RH and Temperature) USB interface and software included (see p. 78).

ORDERING	
MO290-RK	Water Restoration Contractor Kit

MO260-RK Restoration Kit

Diagnose the amount of moisture content in buildings and measure accurate Humidity readings of ambient room conditions and GPP calculations

- Kit includes MO260 and RH490 meters and is supplied in a hard carrying case that provides protection and organization for the meters and accessories whenever they are needed
- **Model MO260** Combination Pin/Pinless Moisture Meter monitors moisture in wood and other building material with virtually no surface damage (see p. 87 for details)
- **Model RH490** Precision Hygro-Thermometer measures Temperature, Humidity, Dew Point, Wet Bulb, and Mixing Ratio in GPP (grains per pound/grains per kilogram) - (see p. 81 for details)

ORDERING	
MO260-RK	Restoration Kit

MO280-RK Restoration Contractor's Kit

A complete solution for the Restoration Contractor

- Use pin and pinless meters to better diagnose the amount of moisture content. Thermal Hygrometer provides fast, accurate readings of ambient room conditions and GPP (g/kg) calculations
- Supplied in a rugged hard carrying case
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" (22mm) with virtually no surface damage (see p. 86).
- **Model MO220** Wood Moisture Meter with integral pins or remote pin probe displays 6 to 99.9% moisture level (8 wood types with calibrations for approx. 170 species of wood) (see p. 84).
- **Model RH490** Precision Hygro-Thermometer with 2%RH accuracy and fast 30sec RH response time. Measures Humidity, Temperature, Dew Point, Wet Bulb, GPP and g/kg (see p. 81).
- **Model RHT10/RHT10-SW** Humidity/Temperature USB Datalogger + GPP (g/kg) Calculation datalogs 16,000 data (RH and Temperature). USB interface and software included (see p. 78).

ORDERING	
MO280-RK	Restoration Contractor's Kit

CALIBRATION TRACEABLE TO NIST

*N Indicates products that are available with optional calibration traceable to **NIST.** See page 144 for a complete listing.*

MO290-EK Environmental Test Kit

NEW

Special Value Kit

Specifically designed for Energy and Weatherization Auditors

- Helps monitor airflow, moisture levels, and provides inspection equipment to find energy loss in hard to see places
- Supplied in a rugged hard carrying case
- **Model MO290** Pinless Moisture Psychrometer + IR Thermometer monitors moisture in wood and building materials with no surface damage. Built-in IR Thermometer for non-contact temperature; Fixed probe measures Air Temperature, RH, Grains Per Pound (GPP), Dew Point (DP), & Vapor Pressure (see p. 87)
- **Model AN200** CFM/CMM Thermo-Anemometer + IR designed with large backlit LCD to display Airflow or Air velocity reading plus built-in IR Thermometer for non-contact temperature measurements (see p. 96)
- **Model CO250** Indoor Air Quality CO_2 Meter measures Carbon Dioxide, Temperature, Humidity, Dew Point and Wet Bulb and calculates statistical 8hr and 15 minute time weighted averages. RS-232 interface, data acquisition software and cable included to analyze data on your PC (see p. 102)
- **Model BR200** Video Borescope/Wireless Inspection Camera with 17mm camera and 39" (1m) waterproof (IP67) flexible gooseneck. Wireless 3.5" Color Monitor can be viewed from up to 32ft (10m) from the measurement point. MicroSD memory card included for storing images (JPEG) or video (AVI) to view on your PC (see p. 124)

ORDERING	
MO290-EK	Environmental Kit

MO280-KH Home Inspector Kits

Special Value Kit

Aids in identification of moisture, HVAC, electrical & hot water system issues

- Specifically designed for home inspection professionals
- Supplied in an attractive storage case
- Dims: 9.5x6.8x2.8" (241x173x71mm); Wt: 1.8lbs (0.7kg)
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" with virtually no surface damage (see p. 86).
- **Model 42500** IR Thermometer for testing HVAC system. Measures from -4 to 500°F (-20 to 260°C) (see p. 69)
- **Model ET10** GFCI Receptacle Tester tests for faulty wiring in 3 wire receptacle and GFCI Circuits and detects 5 wiring faults (not included in MO280-KH2 kit)
- **Model 39240** Waterproof Stem Thermometer for testing hot water heaters. Measures temperature from -40 to 392°F (-40 to 200°C) (see p. 45)

ORDERING	
MO280-KH	Home Inspector Kit
MO280-KH2	Home Inspector Kit

MO280-KW Water Damage Restoration Kit

Special Value Kit

To monitor job site conditions, progress, and insurance company reporting

- Specifically designed for water damage restoration contractors
- Supplied in an attractive storage case
- Dims: 9.5x6.8x2.8" (241x173x71mm); Wt: 1.8lbs (0.7kg)
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" (22mm) with virtually no surface damage (see p. 86).
- **Model RH490** Precision Hygro-Thermometer with 2%RH accuracy and fast 30sec RH response time. Measures Humidity, Temperature, Dew Point, Wet Bulb, GPP and g/kg (see p. 81).
- **Model MO210** Pocket Moisture Meter measures moisture of wood or other building materials displaying both digital and graphical readings (see p. 84).

ORDERING	
MO280-KW	Water Damage Restoration Kit

445703 Big Digit Hygro-Thermometer

1" Digits on large dual LCD display for easy viewing

- Simultaneous display of Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 99% RH)
- Max resolution: 0.1°, 1%; Basic Accuracy: ±1.8°F/1°C and ±5%RH
- MAX/MIN with reset function
- Dimensions: 4.3x3.9x0.78" (109x99x20mm); Weight: 6oz (169g)
- 1 year warranty
- Complete with stand, wall mounting bracket, and 1 AAA battery

ORDERING	
445703	Big Digit Hygro-Thermometer

445715 Big Digit Remote Probe Hygro-Thermometer

Calibration traceable to NIST available

- Probe clips onto meter or extends on 18" (457mm) cable
- Large dual LCD simultaneously displays Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 99% RH)
- Max resolution: 0.1°, 1%; Basic Accuracy: ±1.8°F/1°C and ±5%RH
- MAX/MIN with reset function
- Rear calibration adjustment pot
- Dimensions: 4.3x3.9x0.78" (109x99x20mm); Weight: 6oz (169g)
- 1 year warranty
- Complete with built-in stand, wall mount bracket, sensor and AAA battery; optional calibration salt bottles (RH300-CAL)
- Optional Limited NIST 445715-NISTL includes certificate of Traceability to NIST at 75%. For Certificate of Traceability to NIST at 2 points (33% and 75%), order 445715-NIST (see p. 144 for ordering information)

ORDERING	
445715 N	Big Digit Remote Probe Hygro-Thermometer
RH300-CAL	33% & 75% RH Calibration Kit

445814/445815 Humidity Alerts

Programmable Alarm warns when Humidity level is too high or too low

- %RH audible and visual alarm alerts when humidity is higher or lower than HI/LO set points
- Simultaneous display of Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 99% RH)
- Max resolution: 0.1°, 1%; Basic Accuracy: ±1.8°F/1°C and ±4%RH
- Displays Dew Point temperature
- Max/Min with reset function
- Rear calibration adjustment pot for Humidity and Temperature
- Warns when conditions for mold growth exist (bad for health) or air too dry (static)
- Dimensions: 4.3x3.9x0.78" (109x99x20mm); Weight: 6oz (169g)
- 1 year warranty
- Complete with built-in stand, wall mount bracket, sensor and one AAA battery; optional calibration salt bottles (RH300-CAL)
- **Model 445814** is designed with built-in Humidity and Temperature sensor
- **Model 445815** includes remote probe with 18" (457mm) cable and probe clip on side of meter and offers certificate of calibration traceable to NIST)
- Optional Limited NIST 445815-NISTL includes Certificate of Traceability to NIST at 75%. For Certificate of Traceability to NIST at 2 points (33% and 75%), order 445815-NIST (see p. 144 for ordering information)

ORDERING	
445814	Humidity Alert
445815 N	Humidity Alert II
RH300-CAL	33% & 75% RH Calibration Kit

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

445702 Hygro-Thermometer Clock

Combines three displays for Time, Temperature, and Humidity

- Clock display 12/24 hour time
- MAX/MIN with “reset” function
- Simultaneous display of Time, Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 85% RH)
- Max resolution: 0.1°, 1%
- Basic Accuracy: ±1.8°F/1°C and ±6%RH
- Temperature is °C/°F switchable
- Programmable clock alarm
- Dimensions: 4.3x2.8x0.8" (109x71x20mm); Weight: 4oz (113g)
- 1 year warranty
- Complete with stand, wall mounting bracket, and one AAA battery

ORDERING	
445702	Hygro-Thermometer Clock

44550 Humidity and Temperature Pen

Pocket size for quick and reliable measurements at any location

- Built-in sensors provide simultaneous readings of Relative Humidity (20 to 90%) and Temperature (14 to 122°F/-10 to 50°C) on dual LCD
- Max resolution: 1°, 1%
- Basic Accuracy: ±2°F/1°C and ±5%RH
- Temperature is °C/°F switchable
- Max/Min memory functions for display of highest and lowest readings for both Temperature & Relative Humidity
- “Clear” function key to erase stored Max/Min readings to record new values
- Dimensions: 5.9x0.8x0.7" (150x20x18mm); Weight: 0.7oz (20g)
- 1 year warranty
- Complete with pocket clip and one LR44 button battery

ORDERING	
44550	Humidity and Temperature Pen

WTH100 Radio Controlled Wireless Clock with Weather Station

Bright backlit display

Receives Time Code from NIST Radio Station WWVB (North America only) and automatically adjusts time, date, and DST

- Large backlit LCD displays Time, Temperature, Barometric Pressure, Weather Symbols (sunny, slightly cloudy, cloudy, rainy, stormy) and Moon phase
- Temperature range: 32 to 113°F (0 to 45°C)
  Barometric Pressure: 850mbar to 1050mbar
- Basic accuracy: ±2°F/1°C
- Selectable barometric pressure in mb/hPa or inHg
- Automatically adjusts for daylight savings time (DST)
- Days of the Week displayed in 5 selectable languages: English/German/French/Italian/Spanish
- Accuracy of 1 second per day
- Alarm Clock with snooze
- °F/°C switchable
- Dimensions: 3.1x1.9x3.9" (79x49x99mm); Weight: 6.7oz (191g)
- 1 year warranty
- Complete with built-in stand, and two AAA batteries

ORDERING	
WTH100	Radio Controlled Wireless Clock with Weather Station

Go Beyond Airflow Measurements

Extech's compact thermo-anemometers and multi-function environmental meters couple all-in-one versatility with accurate diagnostics. From solving HVAC problems to ensuring workplace safety compliance, Extech helps you get results with fewer tools.

ACCESSORIES	
45116	Mini Impeller (2pk) for 45118
45156	Mini Impeller (2pk) for 45158
TR100	Tripod
CA895	Small Vinyl Pouch Case for 45118, 45158
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

45118
Mini Thermo-Anemometer

Waterproof pocket size with Air Velocity, Temperature and Windchill

- Display Air Velocity and Temperature or Windchill
- Adjustable averaging function of 5, 10, or 13 second intervals
- Fold up protective housing extends to 9" (229mm) for better reach
- Tripod mount (optional TR100 Tripod — sold separately)
- Data Hold with Auto power off
- Water resistant housing floats
- Replaceable plastic vane 45116
- Complete with CR2032 lithium battery and 43" (1.09m) lanyard

45158
Mini Thermo-Anemometer+ Humidity

Waterproof pocket size with Air Velocity, Temperature, %RH, Dew Point & Windchill

- Display air velocity and either Relative Humidity, Dew Point, Temperature or Windchill
- Adjustable averaging function of 5, 10, or 13 second intervals
- Fold up housing extends to 9" (229mm) for better reach
- Tripod mount (optional TR100 Tripod — sold separately)
- Data Hold with Auto power off
- Water resistant housing floats
- Replaceable plastic vane 45156
- Complete with CR2032 lithium battery and 43" (1.09m) lanyard

SPECIFICATIONS	45118	45158
ft/min (res.)	100 to 5500 (20)	100 to 5500 (20)
m/s (res.)	0.5 to 28 (0.1)	0.5 to 28 (0.1)
km/h (res.)	1.8 to 100.6 (0.7)	1.8 to 100.6 (0.7)
MPH (res.)	1.1 to 62.5 (0.2)	1.1 to 62.5 (0.2)
knots (res.)	1.0 to 54.3 (0.3)	1.0 to 54.3 (0.3)
Beaufort Force (res.)	1 to 17 (1)	1 to 17 (1)
Temperature & Windchill °F/°C	0 to 122°F (0.1°), -18 to 50°C (0.1°)	0 to 122°F (0.1°), -18 to 50°C (0.1°)
Relative Humidity (res.)	—	10% to 95% (1%)
Foot Candles/Lux (res.)	—	—
Sound Level (res.) - A weighting	—	—
Basic Accuracy		
Airflow	±3% of reading	±3% of reading
Temperature	±1.8°F, ±1°C	±1.8°F, ±1°C
Relative Humidity	—	±5%RH
Light	—	—
Sound	—	—
PC Interface	—	—
CE approved	Yes	Yes
Dimensions/Weight	5.25x2.75x0.75" (133x70x19mm)/ 3oz (95g)	5.25x2.75x0.75" (133x70x19mm)/ 3oz (95g)
	Vane: 1" (26mm)D	Vane: 1" (26mm)D
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

45160/45170
Environmental Meters

Measures Humidity, Temperature, and Airflow plus Light Level

- Built-in low friction vane wheel improves air velocity accuracy
- Type K input (Probe sold separately - see p. 40, 41, & 74)
- MAX/MIN and Data hold
- Thin-film capacitance humidity sensor for fast response
- Complete with wrist strap and 9V battery

45170 Additional Features

- Utilizes precision photo diode and spectral response filter for Cosine and color corrected measurement
- Auto-rotating display depending on function

EN300
Environmental Meter

Measures Humidity, Temperature, Air Velocity, Light, and Sound

- Auto-rotating display depending on function
- Built-in low friction vane wheel improves air velocity accuracy
- Thin-film capacitance humidity sensor built-in for fast response
- Thermistor for ambient temperature and Type K input for taking surface temperature
- Utilizes precision photo diode and correction filter
- Sound Level measurement meets IEC 61672 class 2
- MAX/MIN and Data hold
- Complete with 6 AAA batteries; Optional AC adaptor UA100-240

AN400
Cup Thermo-Anemometer

Rotating cups provide accurate air velocity measurements from any direction

- Wide range air velocity measures m/s, ft/min, km/hr, and knots
- Dual LCD digital display of Air Velocity and Temperature
- Record MAX/MIN values
- Record up to 100 readings
- Water resistant housing (IP65)
- Complete with four AAA batteries

■ 45160 | ▲ 45170	EN300	AN400	SPECIFICATIONS
80 to 5910 (10)	80 to 5910 (1)	144 to 6895 (1)	ft/min (res.)
0.4 to 30 (0.1)	0.4 to 30 (0.1)	0.9 to 35.0 (0.1)	m/s (res.)
1.4 to 108.0 (0.1)	1.4 to 108.0 (0.1)	2.5 to 126.0 (0.1)	km/h (res.)
0.9 to 67.0 (0.1)	0.9 to 67.0 (0.1)	1.6 to 78.2 (0.1)	MPH (res.)
0.8 to 58.3 (0.1)	0.8 to 58.3 (0.1)	1.4 to 68.0 (0.1)	knots (res.)
—	—	—	Beaufort Force (res.)
32 to 122°F (0.1°), 0 to 50°C (0.1°)	32 to 122°F (0.1°), 0 to 50°C (0.1°)	32 to 122°F (0.1°), 0 to 50°C (0.1°)	Temperature & Windchill °F/°C
10 to 95% (0.1%)	10 to 95% (0.1%)	—	Relative Humidity (res.)
■ No ▲ 0 to 1860Fc (0.1Fc)/0 to 20,000Lux (1Lux)	0 to 1860Fc (0.1Fc)/ 0 to 20,000Lux (1Lux)	—	Foot Candles/Lux (res.)
—	35 to 130dB (0.1dB)	—	Sound Level (res) - A weighting
		Basic Accuracy	Basic Accuracy
±3% FS	±3% FS	±2% of reading	Airflow
±2.5°F, ±1.2°C	±2.5°F, ±1.2°C	±1.5°F, ±0.8°C	Temperature
±4%RH	±4%RH	—	Relative Humidity
■ No | ▲ ±5% of reading	±5% of reading	—	Light
—	±1.4dB	—	Sound
—	Optional 407001 Software (see p. 106)	—	PC Interface
Yes	Yes	Yes	CE approved
6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	7.5x1.6x1.3" (190x40x32mm)/ 6.3oz (181g)	Dimensions/Weight
Vane: 1.2" (30.5mm)D	Vane: 1.2" (30.5mm)D	Vane: 2.9" (70mm)D	
1 year	1 year	1 year	Warranty

Versatile and Durable Tools for HVAC/R

Extech equips HVAC/R professionals with rugged, accurate tools for measuring airflow, air velocity and air/surface temperatures. Extech's thermo-anemometers are available with vane/propeller probes as well as telescoping, hot-wire probes for small openings or hard-to-reach areas.

AN100/AN200 CFM/CMM Thermo-Anemometers

Large backlit display of Airflow or Air Velocity plus model with built-in InfraRed Thermometer

- Simultaneous display of Ambient Temperature and Air Flow or Air Velocity
- Up to 8 easy to set Area dimensions stored in internal memory (ft^2 or m^2)
- 20 point AVG for Air Flow
- Low friction 2.83"D (72mm) ball bearing vane wheel
- Data Hold, MIN/MAX, Auto off
- Complete with vane sensor on 3.9ft (120cm) cable, 9V battery, protective rubber holster, and case
- **Model AN200** also features built-in IR Thermometer

HD300 CFM/CMM Thermo-Anemometer + IR Thermometer

Built-in IR Thermometer for quick troubleshooting of ceiling vents, duct work, and other remote surfaces

- IR Thermometer has 30:1 distance to target ratio and Laser pointer
- Simultaneous display of Air Flow in CFM/CMM or Air Velocity Plus Ambient Temperature
- Up to 8 easy to set Area dimensions stored in memory
- Large backlit LCD
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- USB port includes PC software
- Includes PC software, cable, vane sensor on 3.9ft (120cm) cable, built-in stand, case, and 9V battery

SPECIFICATIONS	■ AN100 N | ▲ AN200 N	HD300 N
Air Velocity (Max Res.)		
ft/min	80 to 5900 (1)	80 to 5900 (1)
m/sec	0.4 to 30.00 (0.01)	0.4 to 30.00 (0.01)
km/h	1.4 to 108.0 (0.1)	1.4 to 108.0 (0.1)
MPH	0.9 to 67.0 (0.1)	0.9 to 67 (0.1)
knots	0.8 to 58.0 (0.1)	0.8 to 58.0 (0.1)
Temperature (Max Res.)	14 to 140°F/ -10 to 60°C (0.1°)	14 to 140°F/-10 to 60°C (0.1°)
Temperature (IR)	■ No | ▲ -58 to 500°F/ -50 to 500°C (0.1°/1°)	-58 to 932°F/-50 to 500°C (0.1°/1°)
Air Flow (CFM = ft^3/min)	■ 0 to 9999CFM (1) | ▲ 0 to 999,999CFM (0.1)	0 to 999,900CFM (0.001)
Air Flow (CMM = m^3/min)	■ 0 to 9999CMM (1) | ▲ 0 to 999,999CMM (0.1)	0 to 999,900CMM (0.001)
Basic Accuracy	±3%rdg; ±2°F (±1°C)	±3%rdg; ±4°F (2°C)
PC Interface	—	Yes
Datalogger	—	Directly to PC using software
CE approved	Yes	Yes
Dimensions/Weight	7x2.9x1.3" (178x74x33mm)/1.6lbs (700g)	8x3x1.9" (203x75x50mm)/12.2oz (350g)
Warranty	1 year	3 years

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

407113 High Temperature CFM Metal Vane Anemometer

Withstands temperatures to 175°F (80°C) and airspeed to 6890ft/min

- Display Air Flow (CFM) or Air Velocity plus Temperature
- Air Flow displayed in 3 modes: Instantaneous value, Up to 20 point average, or 2/3 flow value
- Record and Recall MIN/MAX
- Data Hold plus Auto power off
- Built-in PC Interface
- Optional Data Acquisition software 407001 and Datalogger 380340 - see details on p. 106
- Includes metal vane sensor with 3.9ft (120cm) cable, 9V battery, holster with stand, and hard case; Optional 117V (156119) or 220V (156221) AC adaptors (see p.106 for ordering).

407123 Heavy Duty Hot Wire Thermo-Anemometer

Telescoping probe is designed to fit into small openings and measure airflow down to 40ft/min

- Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 7ft (2.1m) maximum length with cable and vane is 0.5" (13mm) in diameter
- Large 1.4" (36mm) dual LCD display
- MAX/MIN, Data Hold
- Optional Data Acquisition software 407001 and Datalogger 380340 - see details on p. 106
- Complete with telescoping probe with cable, six AAA batteries and protective holster

NOTE: AC Adaptor not available for this model

407119 Hot Wire CFM Anemometer

Accurately measures Air Flow (CFM/ CMM) or Air velocity plus Temperature

- Air velocity measurements as low as 40ft/min
- Telescoping probe extends up to 3ft (940mm) long
- Measures air volume in CFM (ft^3/min) and CMM (m^3/min) plus Temperature simultaneously
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- Record and Recall MIN/MAX
- Data Hold plus Auto power off
- Optional Data Acquisition software 407001 and Datalogger 380340 - see details on p. 106
- Complete with telescoping probe with 5.5ft (167.6cm) cable, and four AA batteries

407113 N	407123 N	407119 N	SPECIFICATIONS
			Air Velocity (Max Res.)
100 to 6890 (1)	40 to 3940 (10)	40 to 3346 (1)	ft/min
0.5 to 35 (0.1)	0.2 to 20 (0.1)	0.2 to 17 (0.1)	m/sec
1.8 to 126.0 (0.1)	0.7 to 72.0 (0.1)	0.7 to 61.2 (0.1)	km/h
1.1 to 78.3 (0.1)	0.5 to 45 (0.1)	0.9 to 38.0 (0.1)	MPH
1.0 to 68.0 (0.1)	1.0 to 31 (0.1)	0.4 to 33.0 (0.1)	knots
32 to 175°F (0.1°)/ 0 to 80°C (0.1°)	32 to 122°F (0.1°)/ 0 to 50°C (0.1°)	32 to 122°F (0.1°)/ 0 to 50°C (0.1°)	Temperature (°F/°C)
—	—	—	Temperature (IR)
0 to 999,900CFM (0.001)	—	0 to 999,900CFM (0.001)	Air Flow (CFM = ft^3/min)
0 to 999,900CMM (0.001)	—	0 to 999,900CFM (0.001)	Air Flow (CMM = m^3/min)
±2%rdg; ±1.5°F (±0.8°C)	±3%rdg or ±(1%+1d)FS; ±1.5°F (±0.8°C)	±2%rdg; ±1.5°F (±0.8°C)	Basic Accuracy
Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)	PC Interface
Optional 380340 Datalogger (see p. 106)	Optional 380340 Datalogger (see p. 106)	Optional 380340 Datalogger (see p. 106)	Datalogger
Yes	Yes	Yes	CE approved
7x2.9x1.3" (178x74x33mm)/1.35lbs (612g)	7x2.9x1.3" (178x74x32mm)/1.1lbs (482g)	7x2.9x1.3" (178x74x32mm)/1.1lbs (482g)	Dimensions/Weight
3 years	3 years	3 years	Warranty

Datalogging Made Easy

Extech is fast becoming the go-to source for compact datalogging test equipment. Now, Extech introduces the new SDL series of HVAC datalogging meters. For accurately measuring airflow and temperature, the SDL series offers flexible options including a high temperature metal vane propeller or a compact hot-wire probe. And for powerful datalogging, readings are stored directly on an SD card in Excel® format, making it easier than ever to track trends and perform extended diagnostics.

ACCESSORIES (FOR SDL300, SDL310, & SDL350)	
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

Vane Versus Hot Wire

HVAC and mechanical contractors often contact us to ask whether they should purchase a vane (propeller) or hot wire anemometer. For many technicians, it is ultimately a matter of preference but there are some distinguishing factors to keep in mind. Vane anemometers are very useful for fast, accurate measurements of air velocity. The ultra compact size of a hot wire anemometer probe makes it easy to access small openings such as louvered vents. Telescoping hot wire probes are also useful for reaching high locations.

SPECIFICATIONS
ft/min
m/sec
km/h
MPH
knots
Air Flow (CFM = ft^3/min)
Air Flow (CMM = m^3/min)
Temperature (air)
Temperature (Type J/K)
Basic Accuracy
PC Interface
Datalogging
CE approved
Dimensions/Weight
Warranty

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

SDL300 Metal Vane Thermo-Anemometer/ Datalogger

Metal Vane withstands temperatures to 158°F (70°C) and air velocity to 6900ft/min

- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Type K/J Thermocouple input for high temperature measurements
- Large (9999 count) LCD displays Air Velocity and Temperature simultaneously
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, metal vane sensor with 3.9ft (120cm) cable, and hard carrying case; *(See p. 40, 41, and 74 for optional Type K and J Thermocouple probes)*

SDL310 Vane Thermo-Anemometer/ Datalogger

Measures Air Temperature to 122°F (50°C) and air velocity to 4930ft/min

- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Type K/J Thermocouple input for high temperature measurements
- Large (9999 count) LCD displays Air Velocity and Temperature simultaneously
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, vane sensor with 3.9ft (120cm) cable, and hard carrying case; *(See p. 40, 41, and 74 for optional Type K and J Thermocouple probes)*

SDL350 Hot Wire CFM Thermo-Anemometer/ Datalogger

Air Velocity meter with telescoping probe designed to fit into HVAC ducts and other small openings and can read down to 40ft/min

- Probe extends up to 4.9ft (150cm) maximum length with cable
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Type K/J Thermocouple input for high temperature measurements
- Large (9999 count) LCD displays Air Velocity and Temperature simultaneously
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, telescoping probe with cable, and hard case; *(See p. 40, 41, and 74 for optional Type K and J Thermocouple probes)*

SDL300 N	SDL310 N	SDL350 N
60 to 6900ft/min	80 to 4930ft/min	40 to 3940ft/min
0.3 to 35m/s	0.4 to 25m/s	0.2 to 25m/s
1.0 to 1265km/h	1.4 to 90.0km/h	0.7 to 72km/h
0.7 to 78.2MPH	0.9 to 55.9MPH	0.5 to 45MPH
0.6 to 68knots	0.8 to 48.6knots	1 to 31knots
—	—	0 to 1,907,000CFM
—	—	0 to 54,000CMM
32 to 175°F (0 to 80°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)
2%rdg	2%rdg	5%rdg
Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)
20M readings using 2G SD memory card	20M readings using 2G SD memory card	20M readings using 2G SD memory card
Yes	Yes	Yes
7.2x2.9x1.9" (182X73X48mm)/17.2oz (487g)	7.2x2.9x1.9" (182X73X48mm)/16.9oz (480g)	7.2x2.9x1.9" (182X73X48mm)/23.1oz (655g)
3 years	3 years	3 years

CO10 Carbon Monoxide (CO) Meter

Check CO level in all environments up to 1000ppm

- Auto Zero at start up
- Displays CO levels from 0 to 1000ppm
- 1ppm resolution with ±5% or ±10ppm basic accuracy (whichever is greater)
- Utilizes a stabilized electrochemical gas specific (CO) fast response sensor
- Audible alarm starts at 35ppm
- Memory stores 10 readings
- Ergonomic pocket size housing
- Max Hold, Data hold buttons, and Auto Power off features
- Dimensions/Weight: 6.3x2.2x1.57" (160x56x40mm)/6.35oz (180g)
- 1 year warranty
- Complete with 9V battery, protective holster, and case

ORDERING	
CO10	Carbon Monoxide Meter

EZ40 EzFlex™ Combustible Gas Detector

Quickly Identifies and Pinpoints gas leaks

- 16" (406mm) gooseneck for easy access into hard to reach locations
- High Sensitivity
- One hand operation with thumb controlled sensitivity adjustment, to eliminate background gas levels
- Visible and audible alarm at 10% (LEL) Lower Explosive Limit for methane
- Locate the smallest leaks
- 1 year warranty
- Complete with 3 “C” batteries

SPECIFICATIONS	
Pump driven field calibration range	10ppm
Sensor type	Solid State
Alarm	Visible and Audible @ 10% LEL for Methane
Warm-up	Approx. 1 minute
Response Time	< 2 seconds (up to 40% LEL)
Duty Cycle	Intermittent
Battery life	8 hours continuous use typical
Dimensions/ Weight	8.7 x 2.83 x 1.8" (221 x 72 x 46mm)/ 18.4oz (520g)

ORDERING	
EZ40	ExFlex™ Combustible Gas Detector

FG100 Combustible Gas Leak Detector

Fast response detection of flammable gas leakage from 500 to 6500ppm

- Detects flammable gases: Liquefied Natural Gas (LNG) and Liquefied Propane Gas (LPG)
- Highly sensitive detection circuitry with audible and visual alarm
- LED indicators for gas leakage and static discharge
- Continuous operation up to 4 hours
- Dimensions/ Weight: 6.5 x 0.8" (164mm x 21mm)/0.9oz (25g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING	
FG100	Combustible Gas Leak Detector

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

CO100 Desktop Indoor Air Quality CO_2 Monitor

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user-adjustable visual and audible alarm

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Visible and Audible CO_2 warning alarm
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Automatic Baseline Calibration (minimum CO_2 level over 7.5 days) or manual calibration in fresh air
- 1 year warranty
- Complete with Universal AC adaptor

ORDERING	
CO100	Desktop Indoor Air Quality CO_2 Monitor

CO200/CO210 Desktop Indoor Air Quality CO_2 Monitor

Model CO200

Model CO210 - Datalogger

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user adjustable high/low alarms and choice of datalogging model

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Auto Baseline Calibration (minimum CO_2 level over 7.5 days) or manual calibration in fresh air
- Dimensions/Weight: 4.6x4x4" (117x102x102mm)/ 7.2oz (204g)
- 1 year warranty
- Complete with Universal AC adaptor; Model CO210 also includes software and cable
- **Model CO200** - Visible and Audible CO_2 warning alarm with relay output for ventilation control

  Model CO210 - Datalogs up to 5333 points for each parameter and can be downloaded to a PC using included Windows® compatible software

ORDERING	
CO200	Desktop Indoor Air Quality CO_2 Monitor
CO210	Desktop Indoor Air Quality CO_2 Monitor/Datalogger

Desktop Carbon Dioxide (CO_2) Meter monitors the air quality in conference rooms insuring proper air ventilation

CO250 Portable Indoor Air Quality CO_2 Meter

Measure CO_2 level in office buildings to insure proper ventilation.

Measures Carbon Dioxide (CO_2) , Temperature, Humidity, Dew Point, and Wet Bulb and calculates statistical 8 hour and 15 minute time weighted averages

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Calculates statistical weighted averages of TWA (8 hour time weighted average) and STEL (15 minute short term exposure limit)
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Backlit triple LCD display and user programmable audible alarm
- RS-232 interface, software and cable included to analyze data on a PC
- Optional 33% and 75% RH calibration bottles (RH300-CAL)
- 1 year warranty
- Complete with software and cable, 4 AA batteries, and carrying case

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 5,000ppm	1ppm
Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C
Humidity	0.0 to 99.9%	0.1%
Wet Bulb and Dew Point	Calculated	
Dimensions	7.9x2.7x2.3" (200x70x57mm)	
Weight	6.7 oz. (190g)	

ORDERING	
CO250	Portable Indoor Air Quality CO_2 Meter
RH300-CAL	33% and 75%RH Calibration Kit

EA80 Indoor Air Quality CO_2 Meter/Datalogger

Measures Carbon Dioxide (CO_2), Temperature, Humidity, Dew Point and Wet Bulbs

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Continuous (20,000 sets) or manual (99 sets) datalogging
- Data hold, Max/Min with Time stamp, Alarm, and Auto Power Off
- Easy calibration in fresh air
- 1 year warranty
- Complete with (6) AAA batteries, RS-232 cable, and Windows® compatible software

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 6,000ppm	1ppm
Temperature	-4 to 140°F (-20 to 60°C)	0.1°F/°C
Humidity	10 to 95%	1%
Datalogging	Continuous: 20,000 sets/Manual 99 sets	
Dimensions	5.3 x 2.8 x 1.2" (135 x 72 x 31mm)	
Weight	8.2oz (235g)	

ORDERING	
EA80	Indoor Air Quality CO_2 Meter/Datalogger

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

SD800 CO_2/Humidity/Temperature Datalogger

Complete with (6) AAA batteries, 2G SD memory card, Universal AC adaptor, and mounting bracket; 1 year warranty

Records data on an SD card in Excel® format to transfer to a PC for analysis

- Checks for Carbon Dioxide (CO_2) concentrations
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Triple LCD simultaneously displays CO_2, Temperature and Relative Humidity
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
CO_2	0 to 4,000ppm	1ppm	±40ppm (<1000ppm); ±5% rdg (>1000ppm)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F/0.8°C
Humidity	10 to 90%	0.1%	±4%RH
Datalogging/PC Interface	20M data using 2G SD memory card/ Optional 407001 software (see p. 106)		
Dimensions/ Weight	5.2 x 3.1 x 1.3" (132 x 80 x 32mm)/ 9.9oz (282g)		

ORDERING	
SD800	CO_2/Humidity/Temperature Datalogger

475055 High Capacity Force Gauge with PC Interface

Complete with tension and compression adaptors, six AA 1.5V batteries, and case; Optional AC Adaptors available 153117 or UA100-240, see below for ordering; 1 year warranty

220lbs (100kg), Tension and Compression

- Tension or Compression, Peak hold and Zero functions
- Large LCD with back light feature and Positive/Reverse display for easy readability
- PC interface and optional software

SPECIFICATIONS	
Range	220 lbs, 100kg, 980 Newtons
Basic Accuracy (23°C)	±(0.5%rdg)
Resolution	0.05lbs, 0.05kg, 0.2 Newtons
Overload capacity	150kg
Update Rate	Fast mode 0.2 seconds; Slow mode 0.6 seconds
Full scale deflection	<1mm
Transducer type	Load cell
Dimensions/ Weight	Meter: 8.5 x 3.5 x 1.8" (215 x 90 x 45 mm)/ 1 lb (450g)

ORDERING	
475055 N	High Capacity Force Gauge with PC Interface
407001	Data Acquisition Software and Serial Cable
407001-USB	USB adaptor for 407001

475040/475044 Digital Force Gauges

Complete with hook adaptor for tension, compression adaptors (flat, cone and chisel head), 5" (127mm) extension rod, 6 AA batteries, and case; 1 year warranty

Push/Pull measurements in kg, lbs, oz and Newton units

- 5 digit 0.4" (10mm) LCD with reversible display feature to match viewing angle
- Zero Adjust, Peak Hold, and Selectable fast/slow response feature
- Over-range, low battery, and advanced function indication

SPECIFICATIONS	MODEL 475040	MODEL 475044 (HIGH CAPACITY)
Range	176oz, 5000g, 49 Newtons	44lbs, 20kg, 196 Newtons
Basic Accuracy (23°C)	±(0.4%)	±(0.5%)
Resolution	0.05oz, 1g, 0.01 Newtons	0.01lbs, 0.01kg, 0.05 Newtons
Overload capacity	10kg	30kg
Update Rate	Fast mode 0.2secs; Slow mode 0.6secs	
Full scale deflection	2.00mm	
Transducer type	Load cell	
Dimensions/ Weight	Meter: 8.9x3.3x1.5" (227x83x39mm)/ 1.2lbs (551g)	

ORDERING	
475040 N	Digital Force Gauge
475044 N	High Capacity Force Gauge
479097	Accessory Kit (2ea.- hook, flat, cone, & chisel head adaptors)
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

VB500 4-Channel Vibration Meter/Datalogger

CE

Available Q4, 2011

Simultaneously displays four channels

- Selectable data sampling rate: 5 to 600 seconds
- Remote vibration sensor with magnetic adapter on 39" (1m) cable
- Wide frequency range of 10Hz to 1kHz
- Basic accuracy of ±5%
- RMS or Peak Value measurement modes
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Data Hold freezes the reading in the display
- Auto power off saves battery life
- Meets ISO2954 standard
- 1 year warranty
- Complete with 4 remote sensors, magnetic mounts, 8 x AA batteries, SD card, 100-240V Universal AC Adaptor and durable hard carrying case

SPECIFICATIONS	
Acceleration	656ft/s², 200m/s², 20.39g (peak)
Velocity	7.87in/s, 200mm/s, 19.99cm/s (peak)
Displacement	0.078in, 2mm (peak-to-peak)
Resolution	1ft/s², 0.1m/s², 0.01g; 0.01in/s, 0.1mm/s, 0.01cm/s; 0.001in, 0.001mm
Basic accuracy	±5%
Memory	20M data records using 2G SD card
Dimensions	Meter: 8 x 3 x 1.5" (203 x 76 x 38mm)
Weight	Meter: 1.13lbs (515g)

ORDERING	
VB500 N	4-Channel Vibration Meter/Datalogger

SDL800 Vibration Meter/Datalogger

CE

Available Q4, 2011

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Manually datalog up to 99 readings and continuous datalogging of 20M readings via 2G SD card
- Selectable data sampling rate: 1 to 3600 second (1 hour)
- Remote vibration sensor with magnetic adapter on 47.2" (1.2m) cable
- Wide frequency range of 10Hz to 1kHz
- Basic accuracy of ±5%
- RMS, Peak Value or Max Hold measurement modes
- Data Hold freezes the reading in the display
- Min/Max and Zero function
- Auto power off saves battery life
- Meets ISO2954 standard
- 3 year warranty
- Complete with remote sensor, magnetic mount, 6 x AA batteries, SD card, and hard carrying case; Optional AC Adaptor

SPECIFICATIONS	
Acceleration	656ft/s², 200m/s², 20.39g
Velocity	7.87in/s, 200mm/s, 19.99cm/s
Displacement	0.078in, 2mm (peak-to-peak)
Resolution	1ft/s², 0.1m/s², 0.01g; 0.01in/s, 0.1mm/s, 0.01cm/s; 0.001in, 0.001mm
Basic accuracy	±5%
Memory	20M data records using 2G SD card
PC Interface	Optional 407001 software (see p. 106)
Dimensions	Meter: 7.2x2.9x1.9" (182X73X48mm)/16.8oz (475g)
Weight	Meter: 1.3lbs (599g)

ORDERING	
SDL800	Vibration Meter/Datalogger
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

461880 Vibration Meter + Laser Combination Tachometer

Measures Acceleration, Velocity, Displacement, RPM and Surface Speed

- Unique large LCD displays characters on reverse direction depending on function
- Windows® compatible software (included) to analyze data on your PC
- Basic accuracy: Tachometer: ±(0.05% rdg), Vibration: ±(5% rdg)
- Dimensions/Weight with Probe: 7.4x3x1.8" (188x75.5x46.8mm)/ 1.12lbs (507g)
- 1 year warranty
- Complete with vibration sensor with 39" (1m) cable, magnetic mount, wheels (cone & flat tips), reflective tape, 4 AA batteries, software with cable, and hard carrying case

Vibration Meter Functions and Features:

- Velocity (max res.): 7.87in/s (0.01in/s), 200mm/s (0.1mm/s), 19.99cm/s (0.01cm/s); Acceleration (max res.): 656ft/s² (1ft/s²), 200m/s² (0.1m/s²), 20.39g (0.01g) Displacement: 0.078in (0.001in), 2mm (0.001mm); Frequency: 10Hz to 1kHz
- RMS or Peak Value measurement modes
- Manual/Auto store/recall up to 1000 readings, Data Hold and Auto power off features

Tachometer Functions and Features:

- RPM ranges — Photo: 10 to 99,999rpm / Contact: 0.5 to 19,999rpm; Surface Speed: 0.2 to 6,560ft/min (0.05 to 1,999.9m/min)
- Uses a laser for greater distance non-contact measurements up to 4.9ft (1.5m)
- Stores Last, Max, and Min readings

ORDERING	
461880 N	Vibration Meter + Laser Combination Tachometer

VB400 Pen Vibration Meter

Includes both test pin tip and magnetic base

Measures RMS Acceleration and Velocity with metric and imperial units

- Ranges — Acceleration (RMS): 656ft/s², 20.39g, 200m/s²; Velocity (RMS): 7.87in/s, 2.00cm/s, 200mm/s; Frequency: 10Hz to 1kHz
- Resolution to 1ft/s²; 0.01g; 0.1m/s² and 0.02in/s; 0.01cm/s; 0.1mm/s
- Basic accuracy of ±5%
- Zero adjustment, Data Hold, and Low battery indicator
- Water and dust resistant to IP65
- Dimensions: Meter: 6.9 x 1.6 x 1.3" (175 x 40 x 32mm); Weight: 0.53lbs (240g) Sensing Head: 0.4" dia x 1.9" (9mm dia x 30mm)
- 1 year warranty
- Complete with test pin tip, magnetic base, 4 x AAA batteries, and pouch case

ORDERING	
VB400	Pen Vibration Meter

VB300 3-Axis G-Force Datalogger

Available Q4 2011

Magnetized/Bolt-on Mounting Base

USB connector easily plugs into a computer for data analysis

Built-in 3-axis accelerometers record the shock and time when it occurs

- Measure and compute real-time spectral data using FFT
- Acceleration — Sampling Rate: 200Hz, Range: ±18g, Resolution: 0.00625g, Accuracy: ±0.5g; Bandwidth: 0 to 60Hz
- Record storage, transport or operational data over time
- Record and time 3-axis shock and peaks
- Datalogs 85,764 peak acceleration and 210 freefall samples with the time
- Choose X-, Y-, Z-axis or any combination (via software)
- Programmable data sampling rate: 1 second to 24 hours
- Manual/Programmable start modes and user-programmable alarm threshold
- Dimensions/ Weight: 3.7 x 1.1 x 0.8" (95 x 28 x 21mm)/ 1oz (20g)
- Complete with Magnetized/Bolt-on Mounting Base, 3.6V Lithium battery and Windows® compatible analysis software; 1 year warranty

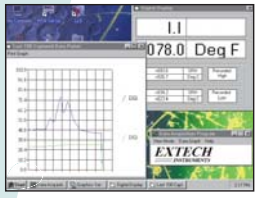
ORDERING	
VB300	3-Axis G-Force Datalogger
42299	3.6V Lithium Battery (pk of 2)

Reliable, Easy to Use, and Accurate

"I use my Extech 407026 Heavy Duty Light Meter with PC Interface for measuring foot candles on LEED certification jobs. The Extech has impressive durability and battery life. Do a good comparison; Extech will come out on top."

Gregg S., New York

ACCESSORIES	
407001	Data Acquisition Software
407001-USB	USB Adaptor
380340	Datalogger (stores 8000 readings)
156119	117V AC Adaptor
156221	220V AC Adaptor
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)



407001 Data Acquisition Software

- Enables users of specific Extech meters to capture, display and store readings on a PC
- Sampling time: 1sec - 60 mins
- Import data into Lotus or Excel
- Includes Windows® 95/98/2000/ NT/XP/7 compatible software and serial cable
- Optional USB Adaptor — 407001-USB

401027 Pocket Foot Candle Light Meter

Measures up to 2,000Fc for basic lighting applications

- Easy to operate Foot candle light meter with 2 ranges
- Convenient pocket size design
- Over-range indication
- Complete with 9V battery, light sensor with protective cover and 47" (1.2m) cable, and built-in stand

401025 Foot Candle/Lux Meter

Includes analog output and fast/slow response feature

- Accurately displays light level in terms of Fc or Lux over three ranges
- Select fast (1 second) or slow (2 seconds) response time
- Analog output of 1mV per count for capturing readings to a recorder
- Complete with 9V battery, light sensor with protective cover and 47" (1.2m) cable, and built-in stand

SPECIFICATIONS	401027 N	401025 N
Fc Range	200, 2000Fc	200, 2000, 5000Fc
Lux Range	—	2000, 20000, 50000Lux
Max. Resolution	0.1Fc	0.1Fc/1Lux
Basic Accuracy	±5% FS	±5% FS
Temperature (Type J/K)	—	—
Cosine & Color Corrected	Yes	Yes
Analog output	—	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions/ Weight	5.2x2.8x1" (131x70x25mm)/ 6.9oz (195g)	6.4x2.8x1.2" (163x70x30mm)/ 8.3oz (220g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

LT300 Light Meter

Digital and Analog display of light in Fc or Lux

- Wide range to 20,000 Foot-Candles or 200,000 Lux with high resolution to 0.01 Fc/Lux
- Relative mode indicates change in light levels
- Peak mode captures highest reading
- Remote light sensor on 12" (305mm) coiled cable — expandable to 24" (609mm)
- Utilizes precision photo diode and color correction filter
- Cosine and color corrected measurements
- MIN/MAX and Data Hold
- Large LCD display with analog bargraph
- Backlight for readings in low light levels
- Complete with 9V battery, light sensor with protective cover, protective holster, and pouch case

407026 Heavy Duty Light Meter with PC Interface

Enhance accuracy by selecting one of four lighting types plus PC interface

- % displays differential from reference point
- "ZERO" Re-Calibration
- Enhance accuracy by selecting lighting type Tungsten/Daylight, Fluorescent, Sodium, Mercury
- MAX/MIN/AVG, Data Hold, and Auto power off
- Built-in PC serial interface with optional 407001 Data Acquisition software 407001 and Datalogger 380340 (see p. 106 for details)
- Complete with 9V battery, light sensor, and protective cover with 46" (1.2m) cable, and protective holster with stand. Optional 117V (156119) or 220V (156221) AC adaptors.

SDL400 Light Meter/Datalogger

Datalogger date/time stamps and stores readings on an SD card in Excel® format

- Wide range: 10,000Fc/100kLux
- Cosine and color-corrected measurements
- Utilizes precision photo diode and spectral response filter
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Large backlit LCD
- Type K/J Thermocouple input
- MIN/MAX and Data Hold
- "ZERO" Re-Calibration
- Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, hard case & light sensor with protective cover; Optional AC Adaptor 153117 or UA100-240, also see p. 40, 41, and 74 for optional Type K and J Thermocouple probes

LT300 N	407026 N	SDL400 N	SPECIFICATIONS
20,000Fc	200, 2000, 5000Fc	200, 2000, 10kFc	Fc Range
200,000Lux	2000, 20000, 50000Lux	2000, 20k, 100kLux	Lux Range
0.01Fc/Lux	0.1Fc/1Lux	0.1Fc/1Lux	Max. Resolution
±5% rdg	±4%FS	±4%rdg	Basic Accuracy
—	—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
Yes	Yes	Yes	Cosine & Color Corrected
—	—	—	Analog output
—	Optional 407001 Software (see p. 106)	Optional 407001 software (see p. 106)	PC Interface
—	Optional 380340 Datalogger (see p. 106)	Manual: 99 readings Continuous: 20M readings with 2G SD card	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.95x1.57" (150x75x40mm/ 7oz (200g))	7x2.9x1.3" (178x74x33mm)/ 1.6lbs (726g)	7.2x2.9x1.9" (182X73X48mm)/16.8oz (475g)	Dimensions/ Weight
1 year	3 years	3 years	Warranty

Bright Solutions from Extech

Extech light meters deliver accurate, repeatable readings for users in a range of industries. Along with available calibration traceable to N.I.S.T., Extech light meters stand out with big-digit displays, wide-range models, ruggedized designs, as well as memory and datalogging capabilities.

NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST.

EA31 EasyView® Big Digit Light Meter

Measures light intensity up to 20,000Fc/Lux

- Compact and rugged design with large display and bargraph
- Data Hold and MIN/MAX readings
- Auto power off
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

EA30 EasyView® Big Digit, Wide range Light Meter

Measures high intensity light up to 40,000Fc and 400,000Lux, is ideal for outdoor applications

- Compact and rugged design with large display and bargraph
- Relative function for zero or difference from reference value
- Peak captures short light pulses to 100µSeconds
- Data Hold and MIN/MAX readings
- Auto power off, Zero function
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

SPECIFICATIONS	EA31 N	EA30 N
Display counts	2000 count LCD	4000 count LCD
Fc Range	20, 200, 2000, 20,000Fc	40, 400, 4000, 40,000Fc
Lux Range	20, 200, 2000, 20,000Lux	40, 400, 4000, 40,000, 400,000Lux
Max. Resolution	0.01Fc/Lux	0.01Fc/Lux
Basic Accuracy	±3%rdg + 0.5%FS	±3%rdg + 0.5%FS
Cosine & Color Corrected	Yes	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.9x2.8x1.4" (150x72x33mm)	5.9x2.8x1.4" (150x72x33mm)
Weight	8.3oz (235g)	8.3oz (235g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

EA33 EasyView® Light Meter with Memory

Advanced illuminance functions and features

- Wide measurement range to 99,990Fc (999,900 Lux)
- Luminous intensity (candela) calculations
- Store and recall up to 50 measurements, includes relative or real time clock stamp
- Ripple function excludes the effect of stray light from the primary light source measurement
- Auto power off with disable
- Multiple point average function
- Timed-Hold, Relative in absolute value or % deviation, and Comparator function with high/low alarms
- Includes built-in stand, light sensor and protective cover with 36" (0.9m) coiled cable, protective holster, 6 AAA batteries, and case

HD400 Light Meter

Large backlit display with fast, 40-segment bar graph for capturing trends

- Wide range to 40,000Fc or 400,000Lux
- Cosine and color corrected measurements
- Utilizes precision silicon photo diode and spectral response filter
- Peak mode (10ms) captures highest reading
- Relative mode indicates change in light levels
- Heavy duty, rugged double molded housing
- Built-in USB port
- Includes light sensor and cover with 39" (1m) cable, Windows® compatible software with USB cable, built-in stand, hard carrying case, and 9V battery

HD450 Light Meter Datalogger

Automatically stores up to 16,000 readings or manually store/recall up to 99 readings

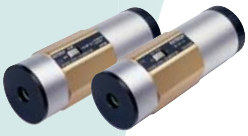
- Records in a continuous mode up to 16,000 readings
- Wide range to 40,000Fc or 400,000Lux
- Cosine and color corrected measurements
- Utilizes precision silicon photo diode and spectral response filter
- Peak mode (10ms) captures highest reading
- Relative mode indicates change in light levels
- Heavy duty, rugged double molded housing
- Built-in USB port
- Includes light sensor and cover with 39" (1m) cable, Windows® compatible software, USB cable, built-in stand, case, and 9V battery

EA33 N	HD400 N	HD450 N	SPECIFICATIONS
999,999 count LCD	4000 count backlit LCD	4000 count backlit LCD	Display counts
9.999, 99.99, 999.9, 9999, 99,990Fc	40, 400, 4000, 40kFc	40, 400, 4000, 40kFc	Fc Range
99.99, 999.9, 9999, 99,990, 999,900Lux	400, 4000, 40k, 400kLux	400, 4000, 40k, 400kLux	Lux Range
0.001Fc/0.01Lux	0.01Fc/0.1Lux	0.01Fc/0.1Lux	Max. Resolution
±3%	±5%	±5%	Basic Accuracy
Yes	Yes	Yes	Cosine & Color Corrected
—	USB with software included	USB with software included	PC Interface
—	Directly to PC using software	16,000 data (continuous)/ 99 data (manual)	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.4" (150x72x33mm)	6.7x 3.1x1.6" (170x80x40mm)	6.7x 3.1x1.6" (170x80x40mm)	Dimensions
11.29oz (320g)	13.7oz (390g)	13.7oz (390g)	Weight
1 year	3 years	3 years	Warranty

Unrivaled Selection

No one offers a better selection of sound level meters than Extech. With models for every application, capabilities include Type 2 compliance, calibration traceable to N.I.S.T., PC connectivity, datalogging, octave band analyzer, ultra compact and wall-mounted designs, and personal dosimeters.

ACCESSORIES	
TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable
407744 N	94dB Sound Calibrator (0.5", 1" microphones)
407766 N	94/114dB Sound Calibrator (0.5", 1" microphones)



Sound Level Calibrators

- Calibrate and verify Sound Meter operation
- 1kHz sine wave at 94dB/114dB (407766) or 94dB (407744) is generated to an accuracy of ±5% (frequency) and ±0.5dB (94dB); ±0.8dB (114dB)
- For use with both 0.5" to 1.0" microphones
- For use with all Extech Sound Level Meters
- Includes screwdriver, batteries, and case

407703A Analog Sound Level Meter

Check noise level economically

- Easy to read analog display
- MAX Hold
- Battery check
- Analog AC output for connection to chart recorders and dataloggers
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with 9V battery

407730 Digital Sound Level Meter

Analog bargraph with 30dB range updates every 40ms

- ±2dB accuracy with 0.1dB resolution
- Analog AC output for connection to chart recorders and dataloggers
- Record MAX/MIN values over time
- Auto power off and MAX Hold functions
- Utilizes 0.5" (12.7mm) condenser microphone
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen and four AAA batteries

SPECIFICATIONS	407703A N	407730 N
Range	54 to 126dB	40 to 130dB
Basic Accuracy	±2dB	±2dB
Weighting (A&C)	Yes	Yes
Response Time (Fast/Slow)	Yes	Yes
Condenser Microphone	0.5" (12.7mm)	0.5" (12.7mm)
Analog Output	AC	AC
CE approved	Yes	Yes
Dimensions	7.1x2.7x1.4" (180x68x36mm)	9x2.2x1.7" (230x57x44mm)
Weight	5.1oz (145g)	5.6oz (160g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are availab*

Optional 407732-KIT

407732 Type 2 Sound Meter

Two range meter with backlit LCD display

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High & Low measuring ranges
- Data Hold and MAX Hold functions
- Backlit display to view in dimly lit area
- Complete with microphone wind screen and 9V battery
- Optional 407732-NISTL includes Certificate of Calibration Traceable to NIST at single point calibration to 94dB
- **Model 407732-KIT** includes 407732 Sound Meter, 407722 94dB Sound Calibrator, and protective hard carrying case (Optional NIST traceable certificate available for kit: 407732-KIT-NIST includes 407732-NISTL and 407722-NIST) - see p. 144 for ordering info

407736 Type 2 Sound Meter with Calibration Check

Two range meter with analog outputs

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High and Low measuring ranges
- MAX Hold with reset button
- Built-in calibration check (94dB)
- Analog AC/DC outputs for connection to an analyzer or recorder
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Optional 407744 or 407766 Sound Calibrator
- Complete with microphone wind screen, 9V battery, and carrying case

407750 Sound Level Meter with PC Interface

Big backlit display, PC interface & background sound absorber

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Background noise absorber for noise measurements with high ambient noise levels
- PC interface for capturing data to PC, optional Windows® compatible software (407752)
- Large backlit display with analog bargraph
- Auto/Manual ranging and MIN/MAX readings
- Analog AC/DC outputs for connection to a recorder
- Tripod mount (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen, 9V battery and case

■ 407732 N ▲ 407732-KIT N	407736 N	407750 N	SPECIFICATIONS
Low: 35 to 100dB, High: 65 to 130dB	Low: 35 to 90dB; High: 75 to 130dB	30 to 130dB	Range
±1.5dB (Type 2)	±1.5dB (Type 2)	±1.5dB (Type 2)	Basic Accuracy
Yes	Yes	Yes	Weighting (A&C)
Yes	Yes	Yes	Response Time (Fast/Slow)
0.5" (12.7mm)	0.5" (12.7mm)	0.5" (12.7mm)	Condenser Microphone
—	AC/DC	AC/DC	Analog Output
Yes	Yes	Yes	CE approved
Meter: 8.2x2.1x1.25" (210x55x32mm)	9.5x2.7x1" (241x69x25mm)	10x3.1x1.5" (256x80x38mm)	Dimensions
Meter: 8.1oz (230g)	7.6oz (215g)	8.5oz (240g)	Weight
1 year	1 year	1 year	Warranty

Sound Investment for University

"We switched to Extech because of the price and the availability of many different models. I use the sound meter to measure ambient noise in our college's laboratories. I like the quality of the meter and its documentation. Extech offers a large line of products and the prices are reasonable."

Abdie T., California

ACCESSORIES	
407744 N	94dB Sound Calibrator (0.5", 1" microphones)
407766 N	94/114dB Sound Calibrator (0.5", 1" microphones)
TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable (3ft/0.9m)
407764-EXT	15ft (4.7m) Microphone Extension Cable
USB100	RS-232 to USB adaptor
AC Adaptors for 407764, 407780, 407790	
144118	110V AC Adaptor
144220	220V AC adaptor
144240	240V AC adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

407768 Sound Level Meter with PC Interface

Includes Windows® compatible software

- ±1.4dB accuracy
- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 61672 Class 2, EN 60651)
- Auto/Manual ranging
- MIN/MAX and Max Hold
- PC interface for capturing data directly on a PC
- Analog AC output for connection to a recorder
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Complete with 9V battery, Windows® compatible software, Serial cable, microphone wind screen and carrying case

HD600 20,000 Point Datalogging Sound Level Meter

Double Molded housing with USB port

- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Capture up to 10 readings/sec when connected to a PC
- Datalogging capability up to 20,000 records at speeds from 1/sec to 1/59sec
- Records readings with real date and time stamp
- MIN/MAX and Data Hold
- USB port includes PC software
- Tripod included for convenient field use
- Auto power off with disable capability
- Complete with AC Adaptor, Windows® compatible software with USB cable, wind screen, tripod, built-in stand, hard carrying case, and 9V battery

SPECIFICATIONS	407768 N	HD600 N
Range	30 to 130dB	30 to 130dB
Basic Accuracy	±1.4dB	±1.4dB
Weighting (A & C)	Yes	Yes
Response Time (Fast/Slow)	Yes	Yes
Condenser Microphone	0.5" (12.7mm)	0.5" (12.7mm)
Analog Output	AC	AC/DC
PC Interface	Yes	Yes
Datalogging	—	20,000 Records
CE approved	Yes	Yes
Dimensions/Weight	10.6x2.7x1.1" (268x68x29mm)/10oz (284g)	10.9x3x2" (278x76x50mm)/12.3oz (350g)
Warranty	1 year	3 years

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

NEW

SDL600 Data Logging Sound Level Meter with SD Card

Datalogging capability up to 20M records using a 2G SD card

- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with date and time stamp
- Manual store/recall of up to 99 records
- Min/Max, Peak Hold, and Data Hold functions
- Auto power off with disable capability
- Built-in PC interface
- Complete with SD Card, wind screen, 6 AA batteries, and hard carrying case; Optional AC Adaptor UA100-240

407764 128,000 point Datalogging Sound Level Meter

Type 2 meter with datalogging memory plus PC interface

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Large LCD with bargraph display
- Stored data can be transferred to a PC via RS-232 interface
- Real time and Date are logged with data; MAX Hold function
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Optional 15ft (4.7m) microphone extension cable 407764-EXT for measurements in enclosures and other remote locations
- Complete with microphone wind screen, Windows® compatible software, Serial cable, 4 AA batteries, and case; (Optional AC Adaptor - see p. 112)

407780 Integrating Sound Level Datalogger

Leq and SEL measurements with built-in datalogger and PC interface

- Meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Datalogging function records up to 32,000 records
- Programmable integrating time; Real time calendar/clock
- Linearity over wide range (100dB)
- Display modes: SPL, SEL, Lmax/Lmin, Leq
- Impulse/Fast/Slow response time
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Complete with cable, 9 to 25 pin gender changer, Windows® compatible software, microphone wind screen, 4 AA batteries and carrying case; (Optional AC Adaptor - see p. 112)

SDL600 N	407764 N	407780 N	SPECIFICATIONS
30 to 130dB (3 ranges)	30 to 130dB	30 to 130dB	Range
±1.4dB	±1.5dB	±1.5dB	Basic Accuracy
Yes	Yes	Yes	Weighting (A & C)
Yes	Yes	Yes	Response Time (Fast/Slow)
0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Condenser Microphone
AC	AC/DC	AC/DC	Analog Output
Yes	Yes	Yes	PC Interface
20M Records on 2G Memory Card	128,000 Records	32,000 Records	Datalogging
Yes	Yes	Yes	CE approved
9.8x2.9x1.9" (250X73X48mm)/18.3oz (520g)	10.4x2.8x0.8" (265x72x21mm)/11.5oz (358g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)	Dimensions/Weight
3 years	1 year	1 year	Warranty

407760 USB Sound Level Datalogger

Features Record and Alarm LEDs, tripod, and USB connectivity

High accuracy datalogging of up to 129,920 records

- Designed to meet ANSI and IEC 61672 Class 2 standards
- USB interface for easy setup and data download
- Selectable data sampling rate
- Records readings with real time clock
- Two start methods: programmed (from PC) or manual
- 1 year warranty
- Complete with 3.6V Lithium battery, Windows® compatible software, USB cover, tripod, and windscreen

SPECIFICATIONS

Condenser Microphone	0.5" (12.7mm)
Range	30 to 130dB
Frequency Range	31.5 to 8kHz
Basic accuracy	±1.4dB
Weighting	A and C
Response Time	Fast (125ms)/Slow (1s)
Datalogging / PC Interface	129,920 points / USB
Dimensions/Weight	5.1x1.1x0.9" (130x30x25mm)/ 1oz (20g)

ORDERING

407760 N	USB Sound Level Datalogger
42299	3.6V Lithium Battery (pk of 2)

SL130G Sound Level Alert with Alarm

Continuous monitoring of Sound Level — Built-in LEDs alert user when sound level is too high or too low

- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 30m (100ft)
- Ideal for hospital, auditoriums, schools and other areas where there is a need for being alerted when sound level reaches set point
- Meets ANSI Type 2 and EN IEC 60651 standards — compliant with OSHA
- Wall, desk or tripod mount (optional TR100 tripod — sold separately)
- Adjustable high/low limit indication with output to drive external relay module (Optional SL123 & SL124 relay modules)
- Microphone rotates 180° for desired placement. Optional 15ft (5m) microphone extension cable (SL125) for remote monitoring
- 1 year warranty
- Complete with universal AC adaptor and microphone wind screen

SPECIFICATIONS

Display	4.6 x 3.125" (117x79mm) multifunction LCD
Frequency bandwidth	31.5 Hz to 8 kHz
Microphone	0.5" Electret Condenser Microphone (detachable)
Measurement ranges	30 to 80dB, 60 to 110dB, 80 to 130dB
Frequency weighting	'A' and 'C'
Response time	Fast: 125ms / Slow: 1s
Resolution	0.1dB
Alarm output	3.5mm Mono Phone Plug, Maximum: 3.4mA @ 5 VDC
Minimum Output	Voltage: 2.5 VDC
Power	AC/DC Adaptor for full functions; 8xAA batteries for monitoring function only without LED alert
Dimensions/Weight	8.75x7.1x1.25" / 0.63 lbs. (22x18x3.2cm / 285g)

ORDERING

SL130G N	Sound Level Alert
SL123	AC Alarm Relay Module 9 foot cable (3m)
SL124	DC Alarm Relay Module 9 foot cable (3m)
SL125	Remote Microphone cable 15' (5m)
TR100	Tripod (for meters with Tripod mount feature)
407766 N	Sound Level Calibrator, 94/114dB

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

407790 Real Time 1/3 Octave Band Analyzer

Complete with Windows® compatible software, Serial cable, 4 x C batteries, microphone wind screen, mini screwdriver, 120V AC adaptor, and case. See p. 112 for 220-240V Adaptors; 1 year warranty

Type 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display

- 160x160 dot matrix backlit LCD
- Stores 12,280 records in SLM mode and 1024 points in 1/1 or 1/3 octave mode
- Transferred data to a PC to be analyzed using software and cable provided
- A, C, Flat weighting; Fast/Slow response time
- Detachable 0.52" (13.2mm) diameter condenser microphone and Tripod mount
- Real time clock with Year, Month, Day, Hour, Minute, and Second display
- Maintain noise level statistics for internal and external audits

SPECIFICATIONS

Applicable standards	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
Accuracy	±1.5dB (ref 94dB @ 1kHz)
Measurement range / function	30dB to 130dB / La, Lc, Lp, Leq, LE, Lmax, Lmin
Frequency range	25Hz ~ 10kHz
Sound level meter display	Integrating SLM: Digital, 4 Digits with Bargraph
Real Time Analyzer display	Graphical, Bargraph with cursor
1/1- 1/3 Analyzer level range	30 to 130dB
1/1 Octave & 1/3 Octave	1/1 Octave band center frequencies: (9 bands); 1/3 Octave band center frequencies: (27 bands)
Signal output	AC output: 2 Vrms (at full scale); DC output: 10mVDC/dB
Power	Four type C size 1.5V batteries, External DC power: 6V, 1A
Dimensions/Weight	13.6x3.9x2.4" (345x100x60mm)/ 33.5oz (950g)

ORDERING

407790 N	Octave Band Sound Analyzer
407764-EXT	15ft (4.7m) Microphone Extension Cable
407744 N	94dB Sound Level Calibrator (see p. 110)
407766 N	94/114dB Sound Level Calibrator (see p. 110)
USB100	RS-232 to USB Adaptor

407355 Personal Noise Dosimeter Datalogger and Kit

407355-KIT-5
Dosimeter Kit includes five 407355 Dosimeters, 407766 Sound level calibrator, and carrying case

Complete with belt clip, clip-on 0.5" microphone with 2.6ft (0.8m) cable, software, 4 AAA batteries, mini screwdriver and carrying case; 1 year warranty

Measure total sound exposure over an 8-hour period

- Perform OSHA and IEC Noise accumulation surveys
- Adjustable Criterion Level, Exchange Rate, and Threshold
- Optional 94/114dB calibrator to perform "before" and "after" calibration checks
- Ideal for personal/workplace accumulated noise exposure
- Bi-directional RS-232 with Windows® compatible software to control setup and retrieve stored events or analyze real time measurements. Software lists and graphs functions. Complete with 9 pin to 25 pin adaptor and RS-232 cable
- Datalogs up to 4500 readings when used as a sound level meter
- Stores up to 5 dosimeter surveys (Kit 407355-KIT-5 available). Data includes Start/Stop Time, %Dose, TWA, Peak flags, when used in the Dosimeter mode

SPECIFICATIONS

Standards	Meets ANSI S1.25 (1991) Type 2, ISO-1999, BS 402 (1983)
Range/Resolution	70 to 140dBA / 0.1dB (Frequency A Weighting)
Digital Display	LCD 0.01-9999%
Criterion/Threshold Level	80, 84, 85 or 90dB/ 70-90 (1db steps)
Response Rate/Exchange Rate	Fast or Slow/ 3, 4, 5 or 6 dB
High Level Detector/Peak Flag	115dB / 140dB
Battery Life	34 hrs
Event Storage	5 surveys
Dimensions/Weight	4.2x2.5x1.3" (106x64x34mm)/ 8oz (227g) incl. batteries

ORDERING

407355 N	Noise Dosimeter/Datalogger
407355-KIT-5	Noise Dosimeter/Datalogger Kit
407744 N	94dB Sound Level Calibrator (see p. 110)
407766 N	94/114dB Sound Level Calibrator (see p. 110)
USB100	PC to USB Adaptor

Rev Up Your Diagnostics

Measure RPM, surface speed, and revolution counts with Extech's wide range of tachometers. Models include contact, non-contact and combination models, as well as compact, stroboscope and panel-mount versions.

ACCESSORIES

461937	Reflective Tape -Ten reflective tape strips: 23x0.25" (584x6mm) ea. strip
461990	Contact Wheels - 2 sets of cone tip, flat tip, and spare wheel

461891 Contact Tachometer

Fast and accurate RPM and surface speed measurements

- Make contact measurements of rotating objects
- Measure linear surface speeds in ft/min or m/min using three accessory wheels provided
- Recalls Last/MAX/MIN values
- Complete with cone tip, flat tip and spare wheel for surface speed measurements, four 1.5V AA batteries, and carrying case

461893 Non-contact Photo Tachometer

Non-contact RPM measurements using visible light

- Make non-contact rpm measurements of rotating objects
- Use reflective tape on object to be measured and point the integral light beam
- Integral light beam has an ideal measurement range up to 6" (152mm) distance
- Readings updated every second
- Recalls Last/MAX/MIN values
- Complete with 23" (0.6m) reflective tape, four 1.5V AA batteries, and carrying case

SPECIFICATIONS	461891 N	461893 N
rpm	0.5 to 20,000	5 to 99,999
ft/min	0.2 to 6560	—
m/min	0.05 to 1999.9	—
Basic Accuracy	±0.05%rdg	±0.05%rdg
Max rpm Resolution	0.1rpm	0.1rpm
Laser	—	—
Temperature (IR)	—	—
CE approved	Yes	Yes
Dimensions	6.7x2.8x1.5" (170x27x37mm)	6.7x2.8x1.5" (170x27x37mm)
Weight	9.2oz (260g)	8.8oz (250g)
Warranty	1 year	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

461895
Combination Contact/Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Uses visible light to read up to 6" (150mm) from target
- Memory/readings button holds last reading for 5 min and recalls min/max readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape, and carrying case

461995
Combination Contact/Laser Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Laser guided for greater distance non-contact measurements up to 6.5ft (2m)
- Memory/readings button holds last reading for 5 min and recalls MAX/MIN readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape, and carrying case

RPM10
Combination Laser Tachometer + IR Thermometer

Photo/Contact Tachometer includes a non-contact IR Thermometer for surface temperature measurements

- Built-in IR thermometer with laser measures remote surface temperature on motors and rotating parts
- Fixed 0.95 emissivity, 6:1 distance to target ratio
- Non-contact Photo tachometer uses a Laser for greater measuring distance up to 6.5ft (2m)
- Contact tachometer for RPM and surface speed measurements
- Recalls Last/MAX/MIN values
- Characters on display reverse direction depending on mode
- Complete with tips/wheel, four 1.5V AA batteries, reflective tape, and carrying case

461895 N	461995 N	RPM10 N	SPECIFICATIONS
Photo: 5 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 20,000	rpm
0.2 to 6560	0.2 to 6560	0.2 to 6560	ft/min
0.05 to 1999.9	0.05 to 1999.9	0.05 to 1999.9	m/min
±0.05%rdg	±0.05%rdg	±0.05%rdg	Basic Accuracy
0.1rpm	0.1rpm	0.1rpm	Max. rpm Resolution
—	Yes	Yes	Laser
—	—	-4 to 600°F (-20 to 315°C)	Temperature (IR)
Yes	Yes	Yes	CE approved
8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	Dimensions
10.6oz (300g)	10.6oz (300g)	10.6oz (300g)	Weight
1 year	1 year	1 year	Warranty

461920 Mini Laser Photo Tachometer Counter

CE

Measures the speed (RPM) of rotating objects and counts (revolution) of moving objects.

Non-contact RPM and Revolution count measurements to 99,999 rev

- Measure non-contact RPM readings of rotating objects by pointing the integral laser at the reflective tape placed on the object to be measured
- Large 5 digit LCD display with backlighting
- Rugged double molded housing with memory button for Last/MAX/MIN readings
- 1 year warranty
- Complete with 9V battery and reflective tape

SPECIFICATIONS	
RPM range	2 to 99,999 rpm
Count range	1 to 99,999 rev (revolution)
Target Distance	1.6ft (500mm)
Basic Accuracy	±0.05%
Resolution	0.1rpm, 1 count
Dimensions/Weight	6.2x2.3x1.6" (160x60x42mm)/5.3oz (151g)

ORDERING	
461920 N	Mini Laser Photo Tachometer Counter
461937	Spare reflective tape (23" each strip), 10pk

461700/461750 PocketTach® Mini Tachometers

CE

For rpm and surface speed measurements

- Ergonomically designed and pocket size housing with protective finger guard
- Hold button freezes displayed readings
- 1 year warranty
- Both meters include 9V battery; 461700 includes reflective tape; 461750 includes surface wheels
- **461750 Contact Tachometer —** Surface wheels measure linear surface speeds
- **461700 Non-contact Tachometer —** Uses reflective tape and integral light beam (measures up to 6"/152mm from target) to measure the speed (rpm) of a rotating object

SPECIFICATIONS	Model 461700	Model 461750
rpm (max res.)	10 to 99,999rpm (0.001)	10 to 10,000rpm (0.001)
ft/min (max res.)	—	3 to 6560ft/min (0.0001)
m/min	—	1 to 1999.9m/min
yd/min	—	1 to 5,000yd/min
Basic accuracy	±0.1%rdg	±0.1%rdg
Sampling Time	1sec>60rpm, >1sec>10 to 60rpm	1sec>60rpm, >1sec>10 to 60rpm
Dimensions/ Weight	4.9x2x1.3" (124x50x33mm)/ 4oz (114g)	5.9x2x1.3" (149x50x33mm)/ 5oz (142g)

ORDERING	
461700 N	PocketTach® Mini Photo Tachometer
461750 N	PocketTach® Mini Contact Tachometer

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

461825 Combination Photo Tachometer/Stroboscope

Stroboscope to analyze rotating objects and Tachometer to measure rpms

- Course and fine flash rate adjustments to freeze and analyze rotating objects
- Unique display characters that reverse direction depending on function mode
- Large 0.4" (10mm) 5 digit LCD display and memory stores Last/MAX/MIN readings
- Complete with four 1.5V AA batteries, reflective tape, and case; 1 year warranty

SPECIFICATIONS	PHOTO TACHOMETER (RPM)	STROBOSCOPE (FPM/RPM)
Range	5 to 99,999	100 to 100,000
Accuracy	±0.1%rdg	±0.1%rdg
Sampling Time	1 Sec ≥ 60rpm;	1 Sec ≥ 60rpm;
Resolution	0.1rpm (<1,000rpm), 1rpm (≥1,000rpm)	0.1fpm (<1,000fpm), 1fpm (≥1,000fpm)
Dimensions/Weight	8.5x2.6x1.5" (215x65x38mm) / 10.6oz (300g)	±0.1%rdg

Ordering	
461825 N	Combination Photo Tachometer/Stroboscope
461937	Spare reflective tape (23" each strip), 10pk

461830/461831 Digital StroboTach

461834

Freeze motion and analyze rotating objects without contact

- Checks and analyzes motion and speed by simply aiming and synchronizing its flash rate (fpm) with a rotating object
- rpms on 4 digit LED display
- Flash/Speed Rate of 100 to 10,000fpm/rpm; Basic accuracy of ±0.05% rdg
- Duty Cycle of 5 to 30mins
- Tripod mount for stationary use
- Dimensions/Weight: 8.3x4.8x4.8" (211x122x122mm)/2.2lbs (1kg)
- Complete with 6ft (1.9m) power cord and handle; 1 year warranty

ORDERING	
461830 N	Digital StroboTach 115VAC, 60Hz
461831 N	Digital StroboTach 220VAC, 50Hz
461834	Spare Xenon Lamp (est life 300hrs), 2pk

461950 1/8 DIN Panel Tachometer

461957
Photoelectric

461955
Proximity

Continuous & accurate readings from 5 to 99,990rpm

- Large LED display updates 1/sec (rpm<60)
- Unique design permits rpm measurements of a one hole gear or disk eliminating the need for special gears
- A pulse is measured when a ferrous object (stud) passes by a proximity sensor
- Choice of two sensor pickup types (both include 6ft/1.8m cable): Proximity sensor: 0.1" (3mm) target distance, range up to 36,000rpm (600Hz); Photoelectric sensor: 0.4" (10mm) target distance, range up to 6000rpm (100Hz)
- 1 year warranty

SPECIFICATIONS	
rpm	5 to 99,990rpm
Basic accuracy	±0.05%
Resolution	0.1rpm (5 to 1000rpm), 1rpm (1000 to 9999rpm), 10rpm (10,000rpm to 99,990rpm)
Power	115V or 230V AC; 50/60Hz
Dimensions/Weight	Bezel 3.8x1.9x2.4" (96x48x60mm); Panel cutout 3.6x1.8" (92x45mm) Meter 3.6x3.5x1.7" (92x90x42mm)/ 14oz (397g)
Sampling Time	1sec>60rpm, >1sec>10 to 60rpm
Dimensions/ Weight	4.9x2x1.3" (124x50x33mm)/ 4oz (114g)

ORDERING	
461950 N	1/8 DIN Panel Mount Tachometer
461955	Proximity Sensor, max. 36,000rpm
461957	Photoelectric Sensor, max. 6000rpm

HD350 Pitot Tube Anemometer + Differential Manometer

Includes Windows® compatible software with cable, 9V battery, pitot tube with two 33.5" (85cm) connection hoses, 100V-240V universal AC Adaptor, and hard carrying case; 3 year warranty

Pitot Tube measures Air Velocity/Airflow in difficult-to-reach or tight locations where a vane anemometer won't fit

- Simultaneous display of Pressure, Air Velocity or Air Flow plus Temperature
- Max/Min/Avg, Relative, time stamp, Data Hold, and Auto power off functions
- Large LCD display with backlighting
- Zero function for offset correction or measurement
- Store/Recall up to 99 readings in each mode; USB port; includes software

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Pressure			
psi	0.7252psi	0.0001psi	±0.3%FS
mbar	50.00mbar	0.01mbar	±0.3%FS
inH_2O	20.07inH_2O	0.01inH_2O	±0.3%FS
mmH_2O	509.8mmH_2O	0.01mmH_2O	±0.3%FS
Pa	5000Pa	1Pa	±0.3%FS
Linearity/Hysteresis	±0.29FS		
Maximum Pressure	10psi		
Air Velocity/Flow			
ft/min	200 to 15733	1	±1% FS
m/s	1 to 80.00	0.01	±1% FS
km/h	3.5 to 288.0	0.1	±1% FS
MPH	2.25 to 178.66	0.01	±1% FS
knots	2.0 to 154.6	0.1	±1% FS
CFM/CMM	0 to 99,999	0.001	±1% FS
Temperature	32.0 to 122.0°F (0 to 50°C)	0.1°	±3°F/1.5°C
Dimensions/Weight	Meter: 8.2 x 2.9 x 1.9" (210 x 75 x 50mm) / 12oz (340g); Pitot Tube: 15.4 x 7.7" (390 x 195mm); Diameter 0.32" (8mm) / 7.2oz (204g)		

ORDERING	
HD350	Pitot Tube Anemometer + Differential Manometer

SDL700 Pressure Meter/Datalogger

NEW

Includes 6 x AA batteries, SD memory card, and hard carrying case; 3 year warranty. Optional AC adaptors.

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Accepts interchangeable transducers with ranges of 30, 150, 300psi (Transducers sold separately)
- Meter automatically senses plug-in transducer's range and calibration
- Selectable data sampling rate: 1 to 3600 seconds
- Stores 99 readings manually and 20M readings via 2G SD card; Built-in PC interface
- Large backlit dual LCD
- MIN/MAX, Data Hold, and Auto power functions

SPECIFICATIONS	30psi	150psi	300psi
bar	0.002 to 2	0.01 to 10	0.02 to 20
psi	0.02 to 29	0.2 to 145	0.2 to 290
kg/cm^2	0.002 to 2.040	0.01 to 10.19	0.02 to 20.40
mmHg	2 to 1500	10 to 7500	20 to 15000
inHg	0.05 to 59.05	0.2 to 295.2	0.5 to 590.5
mH$_2$O	0.02 to 20.40	0.1 to 101.9	0.2 to 204.0
inH$_2$O	1 to 802	5 to 4010	10 to 8020
atm	0.002 to 1.974	0.01 to 9.87	0.02 to 19.74
hPA	2 to 2000	10 to 10000	20 to 20000
kPA	0.2 to 200.0	1 to 1000	2 to 2000
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182X73X48mm)/ 17.3oz (490g)		

ORDERING	
SDL700 N	Pressure Meter/Datalogger
PT30	30psi Pressure Transducer
PT150	150psi Pressure Transducer
PT300	300psi Pressure Transducer
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

CALIBRATION TRACEABLE TO NIST

N Indicates products that are availab

HD700 Series Differential Pressure Manometers

HD755 - (0.5psi)

HD750 - (5psi)

HD700 - (2psi)

Low Range/High Resolution Gauge or Differential Pressure

- Three models to choose from: Model HD700 (±2psi range), Model HD750 (±5psi range), and Model HD755 (±0.5psi range)
- 11 selectable units of measure
- MAX/MIN recording and Relative time stamp
- Data Hold and Auto power off
- Zero function for offset correction or measurement
- Large LCD display with backlighting
- USB port includes PC software
- 3 year warranty
- Complete with 9V battery, Windows® compatible software with USB cable, 100-240V Universal AC adaptor, connection hose, built-in stand, and hard carrying case

SPECIFICATIONS	HD700	HD750	HD755
psi	2psi (0.001psi)	5psi (0.001psi)	0.5psi (0.001psi)
inH_2O	55.40inH_2O (0.01inH_2O)	138.3inH_2O (0.1inH_2O)	13.85inH_2O (0.01inH_2O)
mbar	137.8mbar (0.1mbar)	344.7mbar (0.1mbar)	34.47mbar (0.01mbar)
kPa	13.78kPa (0.01kPa)	34.47kPa (0.01kPa)	3.447kPa (0.001kPa)
inHg	4.072inHg (0.001inHg)	10.18inHg (0.01inHg)	1.018inHg (0.001inHg)
mmHg	103.4mmHg (0.1mmHg)	258.5mmHg (0.1mmHg)	25.85mmHg (0.01mmHg)
$ozin^2$	32$ozin^2$ (0.01$ozin^2$)	80$ozin^2$ (0.01$ozin^2$)	8.00$ozin^2$ (0.01$ozin^2$)
ftH_2O	4.616ftH_2O (0.001ftH_2O)	11.53ftH_2O (0.01ftH_2O)	1.154ftH_2O (0.001ftH_2O)
cmH_2O	140cmH_2O (0.1cmH_2O)	350.1cmH_2O (0.1cmH_2O)	2.59cmH_2O (0.01cmH_2O)
$kgcm^2$	0.140$kgcm^2$ (0.001$kgcm^2$)	0.351$kgcm^2$ (0.001$kgcm^2$)	0.035$kgcm^2$ (0.001$kgcm^2$)
bar	0.137bar (0.001bar)	0.344bar (0.001bar)	0.034bar (0.001bar)
Basic Accuracy	±0.3%FS	±0.3%FS	±0.3%FS
Dimensions/Weight	Meter: 8.2x2.9x1.9" (210x75x50mm)/ 9.8oz (280g)		

ORDERING	
HD700 N	Differential Pressure Manometer (2psi)
HD750 N	Differential Pressure Manometer (5psi)
HD755 N	Differential Pressure Manometer (0.5psi)

407910 Heavy Duty Differential Pressure Manometer

Wide range dual input with multiple units and RS-232 interface

- Dual differential inputs with internal sensors
- Wide (±802 inches of water) measurement range with high resolution to 0.5 inch
- Displays 8 types of pressure units
- Zero function for offset measurements
- Data Hold, Auto power off, and MAX/MIN
- Built-in RS-232 PC interface — optional 407001 Data Acquisition software or 380340 datalogger (see p. 106 for details)
- 3 year warranty
- Complete with 2 quick-disconnect fittings, 9V battery, protective holster with stand, and case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
psi	±29psi	0.02psi	±1% FS
mbar	±2000mbar	1mbar	±2% FS
kg/cm^2	±2.040kg/cm^2	0.001kg/cm^2	±1% FS
mmHg	±1500mmHg	1mmHg	±1% FS
inHg	±59.05inHg	0.05inHg	±1% FS
mH_2O	±20.40mH_2O	0.01mH_2O	±1% FS
inH_2O	±802.0inH_2O	0.5inH_2O	±1% FS
Atmosphere	±1.974atm	0.001atm	±1% FS
Dimensions/Weight	Meter: 7x2.9x1.3" (178x74x33mm)/12oz (350g)		

ORDERING	
407910 N	Heavy Duty Differential Pressure Manometer
156119	117VAC Adaptor
409997	Soft Vinyl Pouch Carrying Case

HDV600 Series High Definition VideoScope Inspection Cameras

Narrow diameter cameras with 5.7" High Definition Color LCD Monitor deliver high image and video resolution on large color display

- The HDV600 Series VideoScope has various camera probes to fit your application needs. Choose from a range of sizes with articulating or wireless features.
- 5.7" color LCD TFT — high definition 640x480 pixels resolution
- Waterproof (IP67) meter and camera head with cable
- Bright white LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view and 6" (15.2cm) minimum focus distance
- 2G SD memory card included to store >14,600 images
- Video recording (up to 4 hours) with Voice annotation
- Video and images can be transferred via the SD card, USB output or AV out
- An optional wireless transmitter (HDV-WTX) connects to your camera cable and allows you to transmit video up to 100ft (30m)
- 1 year warranty
- Complete with SD memory card, 3.7V rechargeable Li-Polymer battery, AC adaptor, USB and AV cables, camera with cable, and case

Camera Tip features built-in LED lights.

HDV-WTX Wireless Transmitter allows measurements up to 100ft (30m) away

Model HDV610
- VideoScope with 5.5mm diameter camera head (1m flexible cable)

MODEL HDV620
- VideoScope with 5.8mm diameter camera head (1m semi-rigid cable retains configured shape)

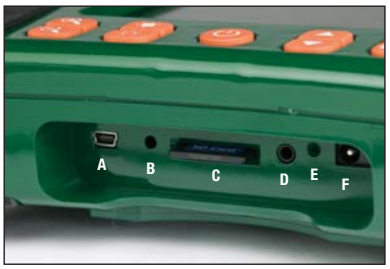
Model HDV640 & HDV640W
- VideoScope with 6mm diameter camera head (1m semi-rigid cable retains configured shape)
- Easy knob control of the articulating camera tip facilitates viewing in obstructed areas where standard camera tips cannot access.
- 320° camera probe rotation (from straight position, 160° left and 160° right)

MODEL HDV640W
- Built-in wireless transmitter in camera cable controller allows you to transmit video up to 32ft (10m) from the measurement point to your monitor

Articulating (6mm diameter) camera tip adjusts up to 320° viewing angle.

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*



A. USB input
B. Microphone input
C. SD card slot
D. AV out
E. Reset switch
F. Power adaptor input

Features a 5.7" (144mm) high definition color LCD monitor

HDV640 High Definition Articulating VideoScope (6mm diameter camera/1m semi-rigid cable)

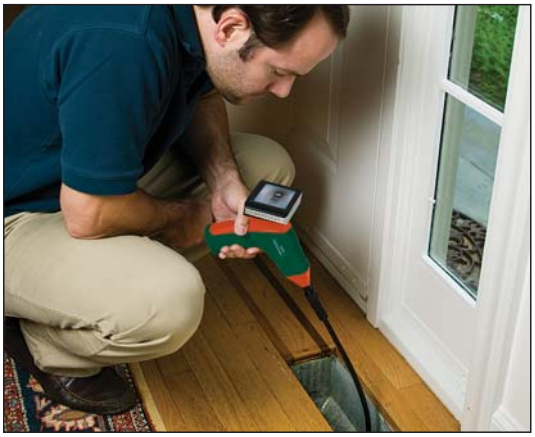
ORDERING

Video Inspection Camera Kits	
HDV610	High Definition VideoScope (5.5mm diameter camera/1m flexible cable)
HDV620	High Definition VideoScope (5.8mm diameter camera/1m semi-rigid cable)
HDV640	High Definition Articulating VideoScope (6mm diameter camera/1m semi-rigid cable)
HDV640W	High Definition Wireless Articulating VideoScope (6mm diameter camera /1m semi-rigid cable)
Video Inspection Monitor (order camera head separately from accessories list below)	
HDV600	High Definition VideoScope (meter only)
Optional Camera Heads	
HDV-TX1	6mm Articulating VideoScope Camera Head (1m Semi-Rigid Cable)
HDV-WTX1	6mm Wireless Articulating VideoScope Camera Head (1m Semi-Rigid Cable)
HDV-TX2	6mm Articulating VideoScope Camera Head (2m Semi-Rigid Cable)
HDV-WTX2	6mm Wireless Articulating VideoScope Camera Head (2m Semi-Rigid Cable)
HDV-4CAM-1FM	4mm VideoScope Camera Head with Macro lens (1m Flexible Cable)
HDV-5CAM-1FM	5.5mm VideoScope Camera Head with Macro lens (1m Flexible Cable)
HDV-5CAM-3F	5.5mm VideoScope Camera Head with long depth of field (3m Flexible Cable)
HDV-5CAM-3FM	5.5mm VideoScope Camera Head with Macro lens (3m Flexible Cable)
HDV-5CAM-10F	5.5mm VideoScope Camera Head with long depth of field (10m Flexible Cable)
HDV-5CAM-1RM	5.8mm VideoScope Camera Head with Macro lens (1m Rigid Cable)
HDV-5CAM-3R	5.8mm VideoScope Camera Head with long depth of field (3m Rigid Cable)
HDV-5CAM-3RM	5.8mm VideoScope Camera Head with Macro lens (3m Rigid Cable)
HDV-25CAM-10G	25mm VideoScope Camera Head (10m Fiberglass Cable)
HDV-25CAM-30G	25mm VideoScope Camera Head (30m Fiberglass Cable)
HDV-WTX	Wireless Transmitter
HDV-PC	Spare Patch Cable for HDV Series

Drop proof and Waterproof housing meets IP67 standards

Unlimited Inspection Uses:
Home: Mold, insect infestation, electrical wire or plumbing
HVAC: Ducts, motors, compressors, air movers, and chillers
Automotive: Engines, transmissions, motors, electronics
Government: Safety and security
Industrial: Welding, process equipment, gears, molding machines
Aerospace: Aircraft, debris, cracks or other damages
And more…

BR200/BR250 Video Borescope/Wireless Inspection Cameras



3.5" Color Detachable Wireless LCD Monitor can be viewed from a remote location up to 32ft (10m) from measurement point

- Captured video with date/time stamp can be played back on the wireless monitor or on any monitor with a video input jack
- Video and images can be transferred to a PC via microSD card or USB cable and viewed using Windows® Multimedia Player
- Waterproof (IP67) flexible gooseneck retains configured shape
- NTSC operation with menus in 10 languages
- Close-up field of view; 1 year warranty
- Includes 4 AA batteries, rechargeable display battery, memory card with adaptor, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adaptor, magnetic base stand, and hard case
- **Model BR200** —17mm diameter camera head with built-in two bright LED lamps with dimmer and 39" (1m) flexible gooseneck cable
- **Model BR250** — 9mm diameter camera head with built-in four bright LED lamps with dimmer and 36" (0.9m) flexible gooseneck cable

BRD10 Wireless USB Video Receiver
Optional Wireless USB Video Receiver allows user to stream live video from your Video Borescope to a PC and it can also be viewed remotely via VOIP connection.

Detachable wireless 3.5" color display can be viewed remotely from up to 32ft (10m). Camera features built-in LED lights.

SPECIFICATIONS	
Camera Pixels	BR200: 712x486 (NTSC) / BR250: 640 x 480 (NTSC)
Transmission Frequency/ Range	2468MHz/ 32ft (10m) unobstructed view
Camera Viewing direction	BR200: Viewing Angle 50° / BR250: Viewing Angle 45°
Camera Viewing distance	5.9 to 9.8" (15 to 25cm)
LCD Screen Type/ Pixels	3.5" TFT/ 320 x 240
Monitor Video Output Level	0.9 to 1.3V@75Ω
Monitor Video/Image Resolution	960 x 240 (AVI format)/640 x 480 (JPEG format)
Operating/Charge Time	1.5hrs/3hrs
Dimensions/Weight	Camera: 7.3x5.7x1.6" (186x145x41mm)/18.7oz (530g) Monitor: 3.9x2.7x1" (100x70x25mm)/4.9oz (140g)

ORDERING	
BR200	Flexible Video Borescope (17mm diameter/1m cable)
BR250	Flexible Video Borescope (9mm diameter/1m cable)
BRD10	Wireless USB Video Receiver
BR200-EXT	Borescope Extension Cable for BR250 (19mm diameter/0.9m cable)
BR-4CAM	4.5mm Borescope Camera Head with 1m Cable
BR-5CAM	5.5mm Borescope Camera Head with 1m Cable
BR-9CAM	9mm Borescope Camera Head with 1m Cable
BR-9CAM-2M	9mm Borescope Camera Head with 2m Cable
BR-9CAM-5M	9mm Borescope Camera Head with 5m Cable
BR-17CAM	17mm Borescope Camera Head with 1m Cable
BR-17CAM-2M	17mm Borescope Camera Head with 2m Cable
BR-17CAM-5M	17mm Borescope Camera Head with 5m Cable
UA100-BR	Universal AC Adaptor

Note: Recommended up to two BR200-EXT connected to BR200 and BR250 to maintain resolution)

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

BR100 Video Borescope Inspection Camera

IP67 Waterproof Dustproof

17mm camera diameter and 2.4" Color TFT LCD Monitor with video output for viewing on any monitor with a video input jack

- 39" (1m) flexible gooseneck cable retains configured shape
- Mini water-proof (IP67) camera head for high resolution viewing
- Two bright LED lamps with dimmer to illuminate viewed object
- Display detaches for easy storage
- 1 year warranty
- Complete with 4 AA batteries, extension tools (mirror, hook, magnet), video output jack, and hard case
- Optional BR200-EXT extension cable & accessories available

SPECIFICATIONS

Camera	
Viewing direction	Viewing Angle 50°
Focus distance from object	5.9" to 9.8" (15 to 25cm)
Minimum bend radius	2.36" (60mm)
Dimensions/Weight	7.3 x 5.7 x 1.6" (186 x 145 x 41mm)/18.7oz (530g)
Monitor	
LCD Screen Type	2.4" TFT
Pixels	480 x 234
Operating	1.5 hours
Dimensions/ Weight	3.9 x 2.7 x 1.8" (100 x 70 x 30mm)/ 4.9oz (140g)

ORDERING (SEE P. 124 FOR CAMERA HEADS WITH LONGER CABLE LENGTHS)

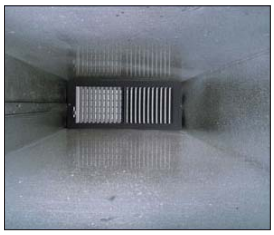
BR100	Flexible Video Borescope (17mm diameter/1m cable)
BR-4CAM	4.5mm Borescope Camera Head with Cable
BR-5CAM	5.5mm Borescope Camera Head with Cable
BR-9CAM	9mm Borescope Camera Head with Cable
BR-17CAM	17mm Borescope Camera Head with Cable
BR200-EXT	Borescope Extension Cable for BR250 (19mm diameter/0.9m cable)
(Note: Recommended up to two BR200-EXT connected to BR250 to maintain resolution)	

BR50 Video Borescope/Camera Tester

IP57 Waterproof Dustproof

17mm camera diameter and 2.4" Color TFT LCD Monitor also tests installed surveillance cameras for correct target alignment

- 17mm diameter camera head with 39" (1m) flexible gooseneck cable retains configured shape
- Mini water-proof (IP57) camera head for high resolution viewing
- Four LED lamps with five brightness levels illuminate the viewed object
- Close-up field of view with 480 x 234 pixel display
- Automatically detects NTSC and PAL cameras
- Switches to standby mode when no input is connected
- Battery can be recharged via the built-in USB port using the included AC adaptor/charger or a USB port on your PC
- 1 year warranty
- Complete with rechargeable Lithium battery and Universal AC adapter/charger with USB cable



ORDERING

BR50	Video Borescope/Camera Tester
BRC-17CAM	17mm Borescope Camera Head with Cable

412400 Multifunction Process Calibrator

Precision source and measure for thermocouples, mA, mV and V devices

- Source 0 to 24mA with 0.01mA resolution
- Measure 0 to 50mA (0.1mA resolution)
- Select Type K, J, or T thermocouple for precision calibrations in °F/°C or mV
- Output 0 to 1999mV or 0 to 10.00V
- Measure 0 to 19.99V
- Single/continuous step function for Voltage and Current
- Self-contained 24V loop power supply drives current loads up to 1000Ω
- Memory for 5 user programmable output values of each type for fast calibrations
- 1 year warranty
- Complete with 6 AA batteries, test leads, detachable alligator clips, temperature calibration cable with spade lug connector, carrying case, neckstrap, and Universal AC adaptor

SPECIFICATIONS	DC SOURCE	DC MEASURE	BASIC ACCURACY
Current	0 to 24mA, -25% to +125%	0 to 50mA, -25% to +230%	±(0.075%+1d)
Voltage	0 to 10V	0 to 19.99V	±(0.075% + 1d)
Type J	-58 to 1830°F (-50 to 1000°C)	-58 to 1830°F (-50 to 1000°C)	±(0.15% + 1.8°F or 1°C)
Type K	-58 to 2498°F (-50 to 1370°C)	-58 to 2498°F (-50 to 1370°C)	±(0.15% + 1.8°F or 1°C)
Type T	-184 to 752°F (-120 to 400°C)	-184 to 752°F (-120 to 400°C)	±(0.15% + 1.8°F or 1°C)
Loop Power	24V		±(10µV ± 1d)
Max. Load	1000Ω @ 24mA		
Dimensions/Weight	3.8 x 4.7 x 2.0" (96 x 118 x 45mm)/12oz (340g)		

ORDERING	
412400 N	Multifunction Process Calibrator

433201 Multi-Type Calibrator Thermometer

CE

Source and measure 8 thermocouple type devices J, K, T, E, C, R, S, and N

- Five stored calibration values for fast calibrations
- Large LCD display built into adjustable cover
- Versatile thermometer measures over a wide temperature range
- Displays output in terms of mV or °F/°C temperature based on built-in thermocouple tables
- 1 year warranty
- Complete with Type K Thermocouple Calibration Cable, Copper calibration cable, 9V NiCad rechargeable battery, neckstrap, Universal AC adaptor/recharger, and case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Type J	-58 to 1830°F (-50 to 1000°C)	0.1°/1°	0.15% rdg ±1°
Type K	-58 to 2498°F (-50 to 1370°C)	0.1°/1°	0.15% rdg ±1°
Type T	-184 to 752°F (-270 to 400°C)	0.1°/1°	0.15% rdg ±1°
Voltage	-5.00mV to +55.00mV		10µV ±2d
Dimensions/Weight	3.5x6.6x1" (88x168x26mm)/ 11.6oz (330g)		

ORDERING	
433201 N	Calibrator Thermometer (w/115V AC adaptor)
433202-220 N	Calibrator Thermometer (w/220V AC adaptor)
433202-240 N	Calibrator Thermometer (w/240V AC adaptor)

Order thermocouple probes from p. 40

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

412300A/412355A Current & Voltage Calibrators/Meters

"Source" for calibrating process devices and measuring DC process signals

- LCD displays readings in mA, % of the 0 to 24mA range or as mV in voltage ranges
- Five stored calibration values for fast calibrations
- 1 year warranty
- Complete with 9V battery, calibration cable with spade lug terminals, carrying case, neckstrap and 100V-240V AC Universal Adaptor (50/60Hz)
- **Model 412355A** Current + Voltage Calibrator provides adjustable 0 to 24mA and 0 to 20V calibration source
- **Model 412300A** Current Calibrator provides 0 to 24mA output displayed as mA or % and provides 24VDC power to measure a two-wire current loop

SPECIFICATIONS		
Source	Output 0 to 24mA current for loads up to 1000 ohms; Output 0 to 20V (412355A only)	
Measure	0 to 50mA current signal; 0 to 19.99V (412355A only)	
Power/Measure	Provides power (24VDC) to loop & measures current (412300A only)	
Input/Output	**Ranges and Display**	**Resolution**
	-25.0 to 125.0% (representing 0 to 24mA)	0.1%
	0 to 19.99mA	0.01mA
	0 to 24.0mA	0.1mA
	0 to 1999mV	1mV
	0 to 20.00V	10mV
Accuracy	0.075% ±1 digit	
Dimensions/Weight	3.8x4.2x1.8" (96x108x45mm) folded/ 12oz (340g)	

ORDERING	
412300A N	Current Calibrator/Meter
412355A N	Current & Voltage Calibrator/Meter

412440-S Calibration Source Checker

Easy to use pocket checker for simulating Current Loops

- Pocket Checkers are easy to use and provide a quick and easy way for checking calibration of meters or controllers
- Instantly determine if your device needs calibration or if sensor needs to be replaced
- Sources three discrete current levels: 4mA, 12mA and 20mA
- Bright red LEDs indicate simulation output or battery status
- Accurate to 0.1mA
- Overload indication when load exceeds 240Ω
- Compact case features push button output selector switch
- Ideal for checking calibration and as a current source for setting up engineering units on a process indicator or controller
- Dimensions/ Weight: 3.5x2.3x1" (89x58.4x25.4mm)/ 10oz (283.5g)
- 1 year warranty

ORDERING	
412440-S N	Calibration Source Checker

Perfect Timing

When is a stopwatch more than a stopwatch? When it is helping protect the lives of athletes. Extech's exclusive HeatWatch with built-in heat index alarm is fast becoming standard-issue safety equipment for high school and college athletics coaches around the U.S. as a key part of new policies to monitor against heatstroke. Trust Extech for sports timing, industrial process optimization—and keeping cool.

HW30 Humidity/ Thermometer Stopwatch

Digital UP/DOWN timer displays Temperature, Humidity, and Heat Index

- User programmable Heat Index alarm
- Stopwatch/chronograph mode with 1/100th second resolution
- Fastest/Slowest/Average Lap recall
- 99 lap counter with 30 lap/split memory
- 10 hour countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- Calendar mode displays day, month, and date
- 12 or 24 hour clock operation
- Complete with 39" (1m) lanyard and one 3V CR2032 battery

SPECIFICATIONS	HW30 N
Timing capacity	9hrs, 59mins, and 59secs
Accuracy	±5 seconds/day
Alarm	Yes
Countdown Timer	Yes
Lap Memory	30 laps
Heat Index	70 to 122°F (22 to 50°C)
Temperature	14 to 122°F (-10 to 50°C)
Humidity	1 to 99%
CE approved	Yes
Dimensions	3.1x2.6x0.8" (79x66x21mm)
Weight	3oz (85g)
Warranty	1 year

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

365510 Stopwatch/ Clock

Digital Stopwatch plus Calendar and Alarm

- Stopwatch/Chronograph mode with 1/100th second resolution
- 12 or 24 hour clock operation
- Programmable alarm with an hourly chime
- Split time and two competitor timer
- Calendar displays day, month, and date
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap

365515 Stopwatch/ Clock with Backlit display

Large backlit display feature — perfect for viewing in dimly lit area

- 1/100th second resolution for 30mins
- 1 second resolution up to 24 hours
- 12 or 24 hour clock format
- Calendar displays day, month and date
- Programmable alarm and hourly chime setting
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap

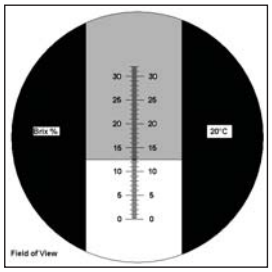
365535 Decimal Stopwatch/Clock

User-selectable resolution of 1/100th of a second, 1/1000th of a minute and 1/100,000th of an hour Large triple display with adjustable contrast

- 1/100th second precision
- 500 memory records of Split and Lap times
- Calendar displays day, month and date
- Time of day with daily alarm
- 12 or 24 hour clock format
- 3 Mode Countdown timer: count down stop, count down repeat, count down then count up
- Stroke measurement
- Pacer from 5 to 240 beeps per minute
- Water resistant housing
- Complete with CR2032 lithium battery and 39" (1m) neckstrap

365510 N	365515 N	365535 N
23hrs, 59mins and 59.99secs	23hrs, 59mins and 59.99secs	19hrs, 59mins and 59.99secs
±3 seconds/day	±3 seconds/day	±5 seconds/day
Yes	Yes	Yes
—	—	3 Modes
—	—	500 laps
—	—	—
—	—	—
—	—	—
Yes	Yes	Yes
2.3x2.8x0.5" (57x70x15mm)	2.3x2.8x0.5" (57x70x15mm)	2.5x3.2x0.8" (64x81x20mm)
2oz (50g)	2oz (50g)	2.7oz (77g)
1 year	1 year	1 year

RF Series Portable Brix Refractometers



Scale view through eyepiece

Measure the concentration of Sugar, Salt or industrial cutting/cooling lubricants

- Accurate, easy to operate refractometers with simple to read scales
- Automatic Temperature Compensation (RF11, RF12, RF15 and RF20 models)
- Requires only 2 or 3 drops of solution
- The prism and lens with a simple focus adjustment provide repeatable results
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

Sucrose (RF10, RF11, RF15, RF16, and RF18)

- Measure the concentration of sugar in fruit juice and industrial fluids

Brix (RF12 and RF18)

- Maintain proper lubricant cooling concentration to extend equipment life

Salinity (RF20)

- Measures the concentration of dissolved salt in water

General Purpose Brix (RF30)

- Triple Range: 0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix

SPECIFICATIONS	TYPE	RANGES	RESOLUTION	ACCURACY
RF10	Sucrose	0 to 32% Brix	0.2	±0.2%
RF11	Sucrose (ATC)	0 to 10% (10 to 30°C)	0.1	±0.1%
RF12	Lubricants/Cutting fluids (ATC)	0 to 18% Brix (10 to 30°C)	0.2	±0.2%
RF15	Sucrose (ATC)	0 to 32% Brix (10 to 30°C)	0.2	±0.2%
RF16	Sucrose	0 to 10% Brix	0.1	±0.1%
RF18	Brix (Lubricants)	0 to 18% Brix	0.1%	±0.2%
RF20	Salt (ATC)	0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific Gravity	1ppt 0.001	±0.1‰ ±0.001
RF30	Triple Range General Service	0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix	0.2	±0.2%

ORDERING	
RF10	0 to 32% Brix Refractometer - Dims/Wt: 6.6x1.3x1.3" (168x32x32mm)/ 3.2oz (91g)
RF11	0 to 10% Brix Refractometer with ATC - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF12	0 to 18% Brix Refractometer with ATC - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF15	0 to 32% Brix Refractometer with ATC - Dims/Wt: 6.3x1.4x1.4" (159x35x35mm)/7oz (200g)
RF16	0 to 10% Brix Refractometer - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF18	0 to 18% Brix Refractometer - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF20	Salinity Refractometer with ATC - Dims/Wt: 7.6x1.5x1.5" (194x38x38mm)/ 8oz (227g)
RF30	Triple Range General Service (0 to 90% Brix) Refractometer - Dims/Wt: 7.9x1.5x1.1" (200x38x28mm)/ 21.86oz (620g)

RF40/RF40C/RF41 Battery Coolant/ Glycol Refractometer

Measure the % of Ethylene Glycol and Propylene Glycol

- Measures the freezing point of automotive coolants plus battery charge condition
- Provide accurate and repeatable measurements of % Ethylene Glycol and Propylene Glycol and °F on easy to read scale
- Automatic Temperature Compensation
- Requires only 2 or 3 drops of solution
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Propylene Glycol freeze point	RF40: -60°F (63%) to 32°F (12%) RF41: -50°C to 0°C	2°F (1%) 1°C	±5°F (2%)
Ethylene Glycol freeze point	RF40: -60°F (59%) to 25°F (16%) -51 to 0°C (-60 to 32°F) RF41: -50°C to 0°C	2°F (1%) 1°C/2°F 1°C	±5°F (2%)
Specific Gravity of Battery Acid	RF40/RF41: 1.15 to 1.30	0.01	
Dimensions/Weight	6.5x1.5x1.5" (165x38x38mm)/ 7oz (200g)		

ORDERING	
RF40	Battery Coolant/Glycol Refractometer w/ATC (°F)
RF41	Battery Coolant/Glycol Refractometer w/ATC (°C)

CALIBRATION TRACEABLE TO NIST

FHT200 Fruit Hardness Tester

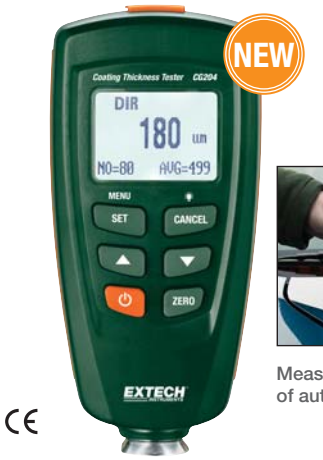
Penetrometer measures fruit ripeness to improve fruit quality, harvest, storage, and product transportation time

- Four Penetrometer tips for large/hard and small/soft fruits
- Tension or Compression, Peak hold and Zero functions
- Measures in lbs, kg, and Newtons
- Positive/Reverse display for easy readability
- Large LCD with back light feature
- PC interface
- Optional software available (407001)
- 1 year warranty
- Complete with four (3mm, 5mm, 8mm, 11mm) Penetrometer Tips, six AA 1.5V batteries, and hard carrying case; Optional AC adaptor

SPECIFICATIONS	
Range	44.10lbs, 20kg, 196.10 Newtons
Accuracy	±(0.5%)
Resolution	0.01lbs, 0.01kg, 0.05 Newtons
Minimum Display	0.07lbs, 0.02kg, 0.3 Newtons
Display	5 digits, 0.63" (16mm) LCD display
Update Rate	Fast mode 0.2 secs; Slow mode 0.6 secs.
Full scale deflection	~0.4mm
Transducer type	Load cell
Peak Hold	Freezes Max reading on display
Dimensions	8.5 x 3.5 x 1.8" (215 x 90 x 45mm)
Weight	1.4 lbs (650g)

ORDERING	
FHT200	Fruit Hardness Tester
407001	Data Acquisition software and cable
407001-USB	USB adaptor for 407001
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

CG204 Coating Thickness Tester



Measuring the thickness of automotive paint

Automatic recognition for ferrous and non-ferrous substrates

- Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG-889-95, and JJG 818-93
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Two measuring modes (Single and Continuous) and Working modes (Direct and Group)
- Memory stores 400 readings: 80 Direct and 320 Group
- User adjustable high/low alarms, Min/Max/Average, One or two point calibration
- USB interface includes software
- 1 year warranty
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Reference Films, and carrying case

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Working Principle	Magnetic Induction	Eddy Current
Measuring Range	0 to 1250µm; 0 to 49mils	0 to 1250µm; 0 to 49mils
Basic Accuracy	±3%	±3%
Resolution	0.1µm (0.004mils)	0.1µm (0.004mils)
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Dimensions/Weight	4.7 x 2.4 x 1.25" (120 x 62 x 32mm)/ 6.17oz (175g)	

ORDERING	
CG204	Coating Thickness Tester
CG204-REF	Replacement Reference Films for CG204 (10 sets)

Tested Tough In the Field

When the U.S. Environmental Protection Agency responded to the Gulf of Mexico oil spill, ExStik dissolved oxygen meters were there helping to ensure marine life was not threatened.

ACCESSORIES

EC-84-P	84µS Conductivity Standard (2 bottles/1 pint ea)
EC-1413-P	1413µS Conductivity Standard (2 bottles/1 pint ea)
EC-12880-P	12880µS Conductivity Standard (2 bottles/1 pint ea)
PH103	Tripak Buffer pouches
PH105	pH ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module
EC405*	ExStik® II Conductivity Cell Module for EC400
EC505*	ExStik® II pH/Conductivity Cell Module for EC500
DO605*	ExStik® II Dissolved Oxygen Module for DO600
DO603	Membrane Kit for DO600/DO605
FL705*	ExStik® II Fluoride Module for FL700
FL704	TISAB reagent tablets for FL700 (100 tablets)
EX010	3ft (1m) Extension Cable w/Probe Guard/Weight
EX050	16ft (5m) Extension Cable w/Probe Guard/Weight
CA895	Small vinyl carrying case with belt loop
CA904	Large hard case for meter and accessories

PH100 ExStik® pH Meters

Flat Surface electrode provides on-the-spot pH measurements

- RENEW feature tells you when it's time to replace your pH electrode
- CAL feature tells you when it's time to recalibrate your meter
- Flat Surface pH electrode rugged design measures pH on solid and semi-solid surfaces
- Analog bargraph originates at neutral point (pH 7.00) to view trends in acidity or alkalinity
- 1, 2 or 3 point calibration (order pH buffers separately)
- ATC plus measures Temperature
- Memory stores 15 labeled data
- Waterproof to IP57 protects meter from wet environment
- Includes flat surface pH electrode, sensor cap, sample cup with cap, four 3V CR2032 button batteries and 48" (1.2m) neckstrap

RE300 ExStik® ORP Meter

High resolution of 1mV

- Measures ORP/Redox from -999 to 999mV
- Automatic electronic self calibration
- Simulated analog bargraph displays change in ORP reading
- Memory stores 15 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with flat surface ORP electrode, protective sensor cap, sample cup with cap, four 3V CR2032 button batteries and 48" (1.2m) neckstrap

SPECIFICATIONS	PH100	RE300
pH	0.00 to 14.00pH	—
ORP (mV)	—	-999 to 999mV
Conductivity	—	—
TDS/Salinity/Fluoride	—	—
DO saturation/concentration	—	—
Temperature	23° to 194°F (-5 to 90°C)	—
Max. Resolution	0.01pH, 0.1°	1mV
Basic Accuracy	±0.01pH, ±1.8°F/1°C	±4mV
Dimensions	1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)
Weight	3.8oz (110g)	3.8oz (110g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

*ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/Chlorine meters

CE All models are CE approved

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

EC400/EC500 ExStik® II Conductivity Meters

Autoranging, high accuracy combination electrode measures multi parameters

- Analog bargraph indicates trends
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0
- 0.5 fixed Salinity ratio
- Data Hold, Auto power off, Low battery indicator
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with electrode, sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap. Order Conductivity standards separately on p. 132.
- **Model EC400** includes Conductivity/TDS cell
- **Model EC500** includes combination pH/Conductivity/TDS cell; RENEW feature tells user to replace electrode

New Low Price!

DO600 ExStik® II Dissolved Oxygen Meter

Easy to replace screw-on membrane cap with optional extension cables

- Oxygen level displayed as % Saturation or Concentration (mg/L [ppm])
- Adjustable Altitude Compensation (0 to 20,000ft in 1,000ft increments)
- Adjustable Salinity Compensation from 0 to 50ppt
- Analog bargraph display
- Self calibration on power up
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- **Model DO600** meter includes DO electrode, sensor cap, spare membrane cap, electrolyte, four 3V CR2032 batteries, and 48" (1.2m) neckstrap
- **Model DO600-K** Kit includes DO600 meter, DO603 membrane kit, 16ft (5m) extension cable, weighted probe guard, and case

New Low Price!

FL700 ExStik® II Fluoride Meter

Direct reading of Fluoride down to 0.1ppm with ATC

- First Fluoride meter with built-in Automatic Temperature Compensation
- Fastest response Fluoride meter (<1min)
- Small sample/TISAB volume required for testing (10mL)
- In compliance with EPA Method 340.2. (Potentiometric Ion Selective Electrode)
- Automatic electronic 1 or 2 point calibration with offset adjustment
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Includes electrode, TISAB reagent tablets, sensor cap, four 3V button batteries, and 48" (1.2m) neckstrap
- Contact Extech or your local lab supply for Fluoride calibration standards

■ EC400 | ▲ EC500	■ DO600 | ▲ DO600-K	FL700	SPECIFICATIONS
■ No | ▲ 0.00 to 14.00pH	—	—	pH
—	—	—	ORP
0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	—	—	Conductivity
TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)	—	Fluoride: 0.1 to 10ppm	TDS/Salinity/Fluoride
—	0 to 200.0% / 0 to 20.00ppm (mg/L)	—	DO saturation/concentration
■ 32° to 149°F (0 to 65°C) | ▲ 23° to 194°F (-5 to 90°C)	32° to 122°F (0 to 50°C)	32° to 140°F (0 to 60°C)	Temperature
0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	0.1%, 0.01ppm (mg/L), 0.1°F/°C	0.1ppm, 0.1°	Max. Resolution
±2%FS, ±0.01pH, ±1.8°F/1°C	±2.0% FS, 0.4ppm (mg/L), ±1.8°F/1°C	±3.0% of reading	Basic Accuracy
1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	Dimensions
3.8oz (110g)	3.8oz (110g) Meter only	3.8oz (110g)	Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	Warranty

CL200 ExStik® Waterproof Chlorine Meter

Direct reading of Total chlorine down to 0.01ppm and is unaffected by color or Turbidity of the sample

- Direct reading of Total Chlorine provides fast and easy measurements
- Wide dynamic range to 10ppm and low detection limit down to 0.01ppm
- Unaffected by sample color or turbidity
- Automatic electronic calibration
- Memory stores 15 labeled readings
- Unique flat surface chlorine electrode eliminates any concerns for clogged junctions or glass breakage
- Waterproof to IP57
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with meter and flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

SPECIFICATIONS	
ppm	0.01 to 10.00ppm
Temperature	23° to 194°F (-5 to 90°C)
Resolution	0.01ppm; 0.1°F/°C;
Basic accuracy	±10% of reading ±0.01ppm; ±1.8°F/±1°C
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)

ORDERING	
CL200	ExStik® Chlorine Meter
CA895	Small vinyl carrying case with belt loop
CL205	Spare Chlorine electrode
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)

EX006/EX007 Accessories

Weighted Base & Solution Cups

- Recommended for ExStik® Chlorine
- Complete with weighted base and 5 solution cups with caps to hold meter and solution when taking a measurement to obtain a stable reading

CL203/CL204 ExTab™ Chlorine Reagent tablets

- No messy powder reagents
- 1 tablet per test
- Foil packaging provides very stable environment with long shelf life
- No dosing equipment required
- No messy powder reagents
- Available in 10pk (100 tests) or Value pack 100pk (1000 tests)

ORDERING	
CL203	ExTab™ Reagent tablets (10pk - 100 tests)
CL204	ExTab™ Reagent tablets (100pk - 1000 tests)

CL207 Chlorine Standard

- 1ppm standard for chlorine meter calibration
- Complete with 3 ampules (20mL each) 1ppm calibration standards

ORDERING	
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

EX900 ExStik® 4-in-1 Kit

Complete kit allows you to measure Chlorine, pH, ORP, and Temperature with all the necessary accessories

Kit Includes:

- CL200 Chlorine ExStik® meter, flat surface pH electrode, flat surface ORP electrode, ExTab™ reagent tablets (50 tests), pH 4, 7 & 10 buffer solutions (20mL) and rinse solution, weighted base with 6 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and case
- Also available EX800 Kit includes all of the above except for ORP electrode.
- See p. 132 and 134 for specifications on the ExStik Meters

ORDERING	
EX900	ExStik® 4-in-1 Kit Chlorine, pH, ORP, Temperature
EX800	ExStik® 3-in-1 Kit Chlorine, pH, Temperature

EC410 ExStik® II* Conductivity Kit

Highly accurate multi-ranging sensor that measures Conductivity, TDS, Salinity, and Temperature

- EC400 ExStik® II Conductivity/TDS/Salinity/Temperature meter with sensor, protective cap, 84µS, 1413µS and 12880µS standards (30mL bottle each), weighted base, 3 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and carrying case
- See p. 133 for more specifications on the EC400 meter

ORDERING	
EC410	ExStik® II Conductivity Kit

EC510 ExStik® II pH/Conductivity Kit

Measures pH, Conductivity, TDS, Salinity, and Temperature using a combination electrode

- EC500 ExStik II pH/Conductivity/TDS/Salinity/Temperature meter with combination electrode module, 84µS, 1413µS, 12880µS calibration standards, pH buffer pouches (1 each of 4, 7, 10pH plus rinse solution), weighted base, three sample cups with caps, four 3V CR2032 batteries, neckstrap, and case
- See p. 133 for more details on the EC500 meter

ORDERING	
EC510	ExStik® II pH/Conductivity Kit

DO610 ExStik® II* DO/pH/EC Kit

Measures Dissolved Oxygen, pH, Conductivity, TDS, Salinity, and Temperature

- EC500 pH/Conductivity ExStik® II meter with combination high accuracy multi-ranging Conductivity sensor for Conductivity, TDS, Salinity, pH and Temperature measurements
- DO600 Dissolved Oxygen ExStik® II meter with electrode, replacement membrane cap, electrolyte, and polishing paper

Accessories included:

- Sample pH Buffers — Single use pouches for pH4, pH7, pH10, and rinse solution
- Weighted base with 2 cups and caps, four 3V CR2032 batteries and neckstrap with each meter, and case
- See p. 133 for more details on the EC500 and DO600 meters

ORDERING	
DO610	ExStik® II DO/pH/Conductivity Kit

For Rugged, Accurate Results

Extech field-tested lab instruments are fast-responding tools designed to deliver accurate and repeatable readings with waterproof and datalogging models available.

ACCESSORIES	
PH105	Spare pH ExStik® Electrode Module
PH115	Spare Refillable pH ExStik® Electrode Module
PH113	Reference Refill Solution Kit for PH110
PH305	Spare pH Electrode for PH300, EC600, DO700
6015WC	Waterproof pH Electrode with cable for Palm pH
6012WS	Waterproof Stick Type pH Electrode for Palm pH
PH4-P	pH 4 Buffer Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (see photo above)
850185	RTD Stainless Steel Temp. Probe for the Oyster
850188	Temperature probe, stainless steel for 407228
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)
CA895	Vinyl Pouch Carrying Case for PH100

PH110

PH100/PH110 Waterproof ExStik® pH Meters

Choose flat surface gel-filled or refillable pH electrode

- "RENEW" feature alerts user when electrode needs replacement
- "CAL" indicator alerts user to recalibrate
- Analog bargraph originates at neutral point (pH 7.00) to conveniently view trends in acidity or alkalinity
- 1, 2 or 3 point buffer calibration; ATC
- Records 15 labeled readings
- Waterproof housing (meets IP57)
- Complete with protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap; requires pH buffers sold separately
- **Model PH100** meter includes gel filled pH flat surface electrode
- **Model PH110** meter includes refillable flat surface pH electrode; PH113 KCl reference kit sold separately

PH220-C

PH220 Waterproof Palm pH/ORP Meter

Large LCD display in rugged housing with choice of stick or cabled pH Electrode

- Displays pH or mV and Temperature simultaneously
- Automatic Buffer recognition
- Automatic Temperature Compensation via Pt-100 sensor built into electrode
- Low Battery indicator and Auto Power off
- Waterproof housing (meets IP57)
- Rugged design for handheld or wall mount (magnetic back)
- Complete with waterproof meter, pH electrode, protective holster, pH 4 & 7 buffers (1 pouch ea.), and 9V battery
- **Model PH220-C** Kit includes ATC pH polycarbonate electrode (12mm diameter) with 39" (1m) cable
- **Model PH220-S** Kit includes ATC pH stick type polycarbonate electrode (12mm diameter) for direct connection to meter

SPECIFICATIONS	■ PH100 | ▲ PH110	■ PH220-C | ▲ PH220-S
Type	■ Gel Filled | ▲ Refillable	■ Cabled pH Electrode | ▲ Stick pH Electrode
pH	0.00 to 14.00pH	0.00 to 14.00pH
mV	—	-999 to 999mV
Temperature	23° to 194°F (-5 to 90°C)	32° to 212°F (0 to 99.9°C)
Max Resolution	0.01pH, 0.1°	0.01pH, 1mV, 0.1°
Basic Accuracy	±0.01pH, ±1.8°F/1°C	±0.01pH, ±2mV, ±0.8°F/0.5°C
Memory	15 readings	—
PC Interface	—	—
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6mm)/3.8oz (110g)	4.4x3.1x1.5" (111x79x39mm)/ 9.2 oz (260g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

CE All models are CE approved.

CALIBRATION TRACEABLE TO NIST

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

PH300 Waterproof pH/Temperature Kit

Measures pH, mV, and Temperature

- Automatic calibration (4, 7, and 10pH)
- Choice of 3 point calibration for better accuracy
- Automatic Temperature Compensation
- Memory stores up to 200 labeled readings
- Waterproof housing (meets IP57)
- Large blue backlit dual LCD displays both pH and Temperature readings
- Auto power off with disable function
- Complete with pH/mV/ Temperature electrode, pH calibration solutions (4, 7, and 10pH), 2 AA batteries, and hard carrying case

Oyster™ Series pH/ORP/Temp Kits

Exclusive Oyster™ Design can be used in the lab or in the field

- Large LCD built into adjustable "flip-up" cover displays pH or mV and Temperature simultaneously
- Convenient neckstrap holds meter while you take measurements
- Records 25 labeled readings
- Min/Max mode; Auto or Manual Temperature compensation (ATC/MTC)
- Self diagnostics display codes
- Auto Power off
- 5 point buffer recognition (1.68, 4.00, 7.00, 10.00, 12.45) with adjustable buffer values
- Optional Universal AC Adaptor UA100-240
- **Model OYSTER-15** Kit includes Oyster-10 meter, neckstrap, 9V battery, 60120B mini pH electrode, sample buffers (4 and 7pH), and carrying case
- **Model OYSTER-16** Kit includes Oyster-15 plus RTD Temperature probe

SDL100 pH/ORP/ Temperature Datalogger

Datalogger date/time stamps and stores 20M readings on a 2G SD card in Excel® format for easy transfer to a PC

- ATC or manual Temperature compensation
- 3 point calibration ensures the best linearity and accuracy
- Selectable data sampling rate: 1 second to 8hrs:59min:59sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, sample buffers, mini pH electrode (60120B), temperature probe (850188), and hard carrying case; Optional AC Adaptor 153117 or UA100-240

PH300	■ OYSTER-15 | ▲ OYSTER-16	SDL100 N	SPECIFICATIONS
Cabled pH Electrode	■ Meter+pH electrode+case | ▲ Meter+pH electrode+ case+Temp probe	Cabled pH Electrode	Type
-2.0 to 19pH	0.00 to 14.00pH	0 to 14pH	pH
-1999mV to 1999mV	-999 to 999mV	-1999mV to 1999mV	mV
32 to 212°F (0 to 100°C)	32° to 212°F (0 to 99.9°C)	32 to 149°F (0 to 65°C)	Temperature
0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	Max Resolution
±0.02pH, ±0.15mV, ±1°F/0.5°C	±0.02pH, ±2mV, ±0.8°F/0.5°C	±0.02pH, ±0.5% mV, ±1.8°F/1°C)	Basic Accuracy
200 readings	25 readings	20M readings on 2G SD card	Memory
—	—	Optional 407001 Software (see p. 106)	PC Interface
4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)	3.7x4.2x2" (94x107x51mm)/ 12oz (340g)	7.2x2.9x1.9" (182X73X48mm)/16oz (455g)	Dimensions/ Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	3yr (meter)/6mo conditional warranty (electrode)	Warranty

PH150-C Concrete pH Kit

Measure pH level of concrete using a pH meter with a flat surface pH electrode plus a metal weight probe guard for stability and protection

Flat surface electrode provides fast and easy on-the-spot pH measurements on concrete

- 3ft (1m) extension cable with probe guard/weight attaches to the Concrete pH Meter for taking measurements on flat concrete surfaces
- Rust resistant metal weight probe guard helps keep electrode in contact with the wet concrete surface and protects the electrode
- RENEW indicator tells you when it's time to replace your electrode
- CAL alert tells you it's time to recalibrate
- Memory records and recalls 25 readings
- 1, 2 or 3 point calibration
- Data Hold, Auto power off, and Low battery indication
- Waterproof/dustproof design (IP57)
- Complete with flat surface concrete pH electrode, protective sensor cap, sample cup with cap, plastic stand, 1m extension cable with weighted probe guard, plastic bottle, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and carrying case

SPECIFICATIONS	
pH	0.00 to 14.00pH
Temperature	23 to 194°F (-5 to 90°C)
Resolution	0.01pH, 0.1°
Accuracy	±0.01pH, ±1.8°F/±1°C
Dimensions (Meter)	1.4 x 6.8 x 1.6" (35.6 x172.7 x 40.6mm)
Weight (Meter)	3.8oz (110g)

ORDERING	
PH150-C	Concrete pH Kit
PH155	Spare ExStik® Concrete pH Electrode Module

PH50/PH60 pH Pens

Easy-to-use, low cost waterproof pH pens

- **Model PH50** — Measures pH
- **Model PH60** — Measures pH and Temperature Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (4, 7, and 10pH calibration buffers sold separately)
- Data hold with Low battery indicator
- Auto power off with disable feature
- 1 year warranty
- Complete with built in electrode, sensor cap, inner pH electrode protection cap, and four LR44 button batteries

SPECIFICATIONS		
pH	2.0 to 12.0pH	0.0 to 14.0pH
Temperature	—	32 to 122°F (0 to 50°C)
Resolution	0.1pH, 0.1°	0.1pH, 0.1°
Accuracy	±0.3pH	±0.2pH; ±1°F/±0.5°C
Dimensions	6x1.5x0.9" (152x37x24mm)	
Weight	2.3oz (65g)	

ORDERING	
PH50	Waterproof pH Pen
PH60	Waterproof pH Meter with Temperature
PH103	Tripak buffers (6ea - 4,7,10pH+2 Rinse solutions)

CALIBRATION TRACEABLE TO NIST

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

pH Electrodes

Choice of Standard or Specialized electrodes with Ag/AgCl gel filled (fast response: 95% in 5sec)

Models 60120B and 601500 — General purpose pH/Ref electrodes

- Rugged, polycarbonate construction features glass pH sensing bulb surrounded by protective teeth. pH range (0 to 14pH), operating temperature (0 to 80°C). Choice of Mini or Standard size.

Model 601100 — Flat surface electrode (Easy to clean)

- PVC bodied electrode, ideal for pH of solid products with minimal moisture like cheese, soils or electrophoretic/agar gels. pH range (0 to 14pH), operating temperature (5 to 80°C).

ORDERING	
60120B	Mini pH Electrode (10 x 120mm)
601500	Standard pH Electrode (12 x 160mm)
601100	Flat Surface pH Electrode (15 x 106mm)

ExStik® Replacement pH, ORP, and Chlorine Electrode Modules

PH105

Flat surface pH, Chlorine, and ORP electrode modules

CL205

RE305

PH113

Reference Refilling Solution Kit for PH115 Refillable pH electrode module

Interchangeable pH, ORP, and Chlorine sensor modules for ExStik® series meters featured on (p. 132, 134, 136)

- ATC via built-in Pt-100Ω sensor (PH105, PH115 & CL205)
- Refillable pH electrode (PH115) provides an economical way to refill your electrode, eliminates the problem of limited electrode shelf life, contamination, and usage life in aggressive applications
- Note: The PH105, CL205 and RE305 replacement modules are not interchangeable with ExStik® II meters shown on p. 133
- 6 month conditional warranty

ORDERING	
PH105	pH ExStik® Electrode Module
PH115	Refillable pH ExStik® Electrode Module
PH113	Reference Refilling Solution Kit for PH115
CL205	Chlorine ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module

pH Buffers

Convenient calibration solutions for your pH meter

- Easy to use, already made fresh pH buffers for calibration
- Helpful table shows what the pH value should be vs. the temperature of the buffer solution measured
- Rinsing solution used for cleaning off the pH electrode before and after taking the next measurement from a different solution to prevent contamination
- Convenient pouch eliminates the need for a cup to store buffer or rinsing solution
- PH103 contains 6 pouches of each buffer (pH 4.00, 7.00, and 10.00), plus 2 Rinsing solutions
- Pint size pH buffer solutions available (PH4-P, PH7-P, and PH10-P)

ORDERING	
PH4-P	pH 4 Buffer Calibration Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Calibration Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Calibration Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)

Ensuring Water Quality

Extech offers must-have water quality testing tools. Find Extech on the job in wastewater treatment facilities, water treatment, industrial systems (boiler water systems, cooling towers, cooling systems, closed loops), alternative farming (hydro-/aeroponics), fish farming, lab testing, pool maintenance, R&D, and more.

EC410 kit

EC400/EC410
ExStik® II Conductivity/ TDS/ Salinity/ Temperature Meter

High accuracy multi-range sensor measures all four parameters

- 8 units of measure include: µS, mS, ppm, ppt, mg/L, g/L, °C, °F
- Simultaneous display of Conductivity or TDS plus Temperature and bargraph
- Memory stores up to 25 labeled readings
- Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0
- Self calibration on power up
- Waterproof to IP57
- EC400 meter includes Conductivity cell*, protective sensor cap, sample cup with cap, four 3V CR2032 button batteries, and 48" (1.2m) neckstrap; Calibration standards sold separately
- EC410 kit (p.135) includes EC400, 84µS, 1413µS, 12880µS calibration standards, weighted base, 3 sample cups with caps, and case

ACCESSORIES	
EC-84-P	84µS Conductivity Standard (2 bottles - 1 pint each)
EC-1413-P	1413µS Conductivity Standard (2 bottles - 1 pint each)
EC-12880-P	12880µS Conductivity Standard (2 bottles - 1 pint each)
EC405*	Spare ExStik® II Conductivity Cell Module for EC400
EC505*	Spare ExStik® II pH/Conductivity Cell Module for EC500
EC605	Spare Conductivity Cell for EC600 and DO700
804010A	Polymer Conductivity Cell for 341350A-P
PH305	Spare pH Electrode for PH300, EC600, DO700
60120B	Spare Mini pH Electrode for 341350A-P
CA895	Small vinyl case with belt loop for EC400, EC500
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)
850190	Thermistor Probe (32 to 194°F/0 to 90°C) for 341350A-P

SPECIFICATIONS	■ EC400 I ▲ EC410
Conductivity	0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS
TDS/Salinity	0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)
pH	—
mV	—
Temperature	32° to 149°F (0 to 65°C)
Max. Resolution	0.1µS, 0.1ppm (mg/L), 0.1°F/°C
Basic Accuracy	±2%FS, ±1.8°F/1°C
Dimensions	■ Meter: 1.4x6.8x1.6" (36x173x41mm)/3.8oz (110g) ▲ Kit: 9.5x6.8x2.8" (241x173x71mm)/1.56lbs (708g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)

*ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/ Chlorine meters

CE All models are CE approved

CALIBRATION TRACEABLE TO NIST

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.

N *Indicates products that are available with optional calibration traceable to* **NIST.** *See page 144 for a complete listing.*

EC510 kit

EC500/EC510 ExStik® II pH/ Conductivity/ Temperature Meter

Combination rugged flat surface pH electrode with Conductivity cell

- 9 units of measure: pH, µS, mS, ppm, ppt, mg/L, g/L, °C, °F
- Analog bargraph indicates trends
- Memory stores up to 25 labeled readings
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0; 0.5 fixed Salinity ratio
- RENEW feature alerts user when electrode needs replacement
- Waterproof to IP57
- EC500 meter includes electrode, protective sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap; Calibration standards sold separately
- EC510 Kit includes EC500, 84µS, 1413µS, 12880µS calibration standards, pH buffer pouches (1 each of 4, 7, 10pH plus rinse solution), weighted base, 3 sample cups with caps, and case

Meter and accessories packaged in hard case

EC600 Waterproof Conductivity Kit

Measures Conductivity, TDS, Salinity, Resistivity, pH, mV and Temperature

- Waterproof housing (meets IP57)
- Choice of 3 point pH calibration (4, 7, and 10pH) for better accuracy
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Automatic Temperature Compensation (non-linear compensation for purified water <10µS/cm to improve measuring accuracy)
- Memory stores up to 300 labeled readings
- Large blue backlit dual LCD display
- Auto power off with disable function
- Complete with pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10pH), Conductivity calibration solution (1413µS), 2 AA batteries, and hard carrying case

Meter and accessories packaged in hard case

341350A-P pH/ Conductivity/TDS/ORP/ Salinity Meter

Exclusive Oyster™ Design can be used in the lab or in the field

- Large dual LCD built into adjustable "flip-up" cover
- Microprocessor based with splash-proof housing and front panel tactile touch pad to slope and calibrate
- Rugged design for handheld or benchtop use
- Convenient neckstrap holds meter while you take measurements
- Memory function stores and recalls 25 labeled readings
- Automatic Temperature Compensation for Conductivity/TDS via thermistor built into conductivity cell
- Manual Temperature Compensation for pH (0 to 100°C)
- Complete with mini pH electrode, thermistor probe (850190), sample buffers, polymer conductivity cell, 9V battery, neckstrap and case; Optional Universal AC adaptor UA100-240

■ EC500 I ▲ EC510	EC600	341350A-P N
0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	0.00 to 199.9mS	10 to 19,990µS/cm
0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L); 0 to 100ppt (g/L)	0 to 100g/L	TDS range: 10 to 19,990ppm (mg/L)
0.00 to 14.00pH	-2 to 19pH	0.01 to 14.00pH
—	-1999mV to + 1999	—
32° to 149°F (0 to 65°C)	pH/mV: 32 to 212°F (0 to 100°C); Other: 32 to 122°F (0 to 50°C)	Thermistor probe: 32 to 194°F (0 to 90.0°C)
0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	0.01pH, 1mV, 0.01µS, 0.01mg/L, 0.01ppt, 0.1°F/°C	0.1mS; 0.01pH
±2%FS, ±1.8°F/1°C	±0.02pH, ±0.15mV, ±1.5%FS, ±1°F/0.5°C	±2%, ±0.02pH
■ Meter: 1.4x6.8x1.6" (36x173x41mm)/ 3.8oz (110g) ▲ Kit: 9.5x6.8x2.8" (241x173x71mm)/1.56lbs (708g)	4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)	3.7x4.2x2" (96x108x45mm)/ 12oz (340g)
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

SDL150 Dissolved Oxygen Meter/Datalogger

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Dual display of Oxygen Concentration and Temperature
- Measures dissolved oxygen from 0 to 20.0mg/L and 0 to 100.0% oxygen plus temperature from 32 to 122°F (0 to 50°C)
- Automatic Temperature Compensation from 0 to 50°C via temperature sensor built into polarographic type oxygen probe
- Selectable data sampling rate: 1 second to 8hrs:59min:59sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto power off with disable function
- Built-in PC interface
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with 6 x AA batteries, SD card, probe, spare probe head with diaphragm, electrolyte, and hard carrying case; Optional Universal AC adaptors

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 20.0 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4 mg/L	±0.7%	±0.8°C/1.5°F
Probe Compensation & Adjustment	Salt: 0 to 50%	Altitude: 0 to 8910m	Temp: 0 to 50°C
Datalogging	99 data (manual)/20M data (2G SD card)		
PC Interface	Optional 407001 Software (see p. 106)		
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182x73x48mm)/ 25.6oz(725g) Probe: Probe: 0.8Dx4.9"L		

ORDERING	
SDL150	Dissolved Oxygen Meter/Datalogger
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pks — 50mL each)
153117	117V AC Adaptor
UA100-240	100-240V AC Adaptor with 3 plugs (US, EU, UK)

407510 Heavy Duty Dissolved Oxygen Meter

Complete with 0.8" (20mm) probe on 13ft (4m) cable, membranes, protective holster with stand, 9V battery, and carrying case

Dual display of Oxygen concentration in solutions and Temperature — plus RS-232 PC interface

- Measures dissolved oxygen, oxygen, plus temperature
- Min/Max/Avg, Data Hold and Auto power off
- Automatic Temperature Compensation
- Large 1.4" (36mm) LCD display
- Built-in PC interface with optional Data Acquisition Software 407001 and Datalogger 380340 (see p. 106)
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 19.9mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4mg/L	±0.7%	±1.5°F/ ±0.8°C
Probe Compensation & Adjustment	Salt: 0 to 39%	Altitude 0 to 3900m	Temp: 0 to 50°C
Dimensions/ Weight	Meter: 7x3x1.3" (178x74x33mm); Probe: 0.8Dx4.9"L		
Weight	17oz (482g)		

ORDERING	
407510	Heavy Duty Dissolved Oxygen Kit
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pks — 50mL each)

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to NIST. See page 144 for a complete listing.

DO700 Waterproof Series Dissolved Oxygen Kit

Read to use complete kit includes all the necessary accessories stored in a hard case for easy transportation. Ideal for field use.

IP57 Waterproof Dustproof

8-in-1 Meter — Measures DO concentration/saturation, pH, mV, Conductivity, TDS, Salinity, Resistivity and Temperature

- Automatic salinity compensation and manual barometric pressure compensation for DO measurements
- Waterproof housing (meets IP57) design and large blue backlit dual LCD display
- Choice of 3 point pH calibration for better accuracy; Automatic Temperature Compensation
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Memory stores up to 400 labeled readings
- Auto power off with disable function
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with Dissolved Oxygen probe with 3 membrane caps and DO internal fill solution (30mL), pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10pH), Conductivity calibration solution (1413µS), 2 AA batteries, and hard carrying case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Dissolved Oxygen (Concentration)	0 to 40.00mg/L	0.01mg/L	±1.5%FS
Dissolved Oxygen (Saturation)	0 to 200.0%	0.1%	±1.5%FS
pH	-2.00 to 19.99pH	0.01pH	±0.02pH
mV	-1999 to + 1999mV	1mV	±0.15mV
Conductivity	0.00 to 199.9mS	0.01µS	±1.5%FS
TDS	0 to 100g/L	0.01mg/L	±1.5%FS
Salinity	0 to 100ppt	0.01ppt	±1.5%FS
Resistivity	0 to 100MΩ cm	0.1Ω	±1.5%FS
Temperature (for pH & mV)	32 to 212°F (0 to 100°C)	0.1°	±1°F/±0.5°C
Temperature (other)	32 to 122°F (0 to 50°C)	0.1°	±1°F/±0.5°C
Dimensions/Weight	4.7x2.6x1.2" (120x65x31mm)/ 6.3oz (180g)		

ORDERING	
DO700	Waterproof Series Dissolved Oxygen Kit
DO705	Dissolved Oxygen Electrode
DO703	Replacement Membrane Caps (3 caps)
PH305	Spare pH/mV/Temperature Electrode
EC605	Spare Polymer Conductivity Cell

DO600 ExStik® II Dissolved Oxygen Meter

Bonded membrane cap for easy replacement. DO603 Membrane Kit includes 6 screw on membrane caps, 15mL filling solution and polishing paper.

Choice of optional EX010 3ft (1m) or EX050 16ft (5m) extension cable with probe weight.

IP57 Waterproof Dustproof

Waterproof stick meter with Bonded Membrane Caps

- Simultaneous display of DO and Temperature plus analog bargraph to view trends
- Memory stores up to 25 data readings
- Oxygen level displayed as % Saturation or Concentration (mg/L); ATC
- Adjustable Altitude Compensation (0 to 20,000ft in 1,000ft increments)
- Adjustable Salinity Compensation from 0 to 50ppt
- Data Hold, Auto power off and low battery indicator
- Optional 3ft (1m) or 16ft (5m) Extension Cable for remote measurements
- Complete with DO electrode, protective sensor cap, spare membrane cap, electrolyte, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap; 1 year warranty (meter)/ 6 months conditional warranty (electrode)

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
DO (saturation mode)	0 to 200.0%	0.1%	±2% FS
DO (concentration mode)	0 to 20.00ppm (mg/L)	0.01ppm (mg/L)	0.4ppm (mg/L)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F (1°C)
Dimensions/Weight	1.4x6.9x1.6" (36x176x41mm)/ 3.8oz (110g)		

ORDERING	
DO600	ExStik® II Dissolved Oxygen Meter
DO605	Spare ExStik® II Dissolved Oxygen Electrode module
DO603	Membrane Kit for DO600 and DO605
EX010	Extension Cable 3ft (1m) with Probe Guard/Weight
EX050	Extension Cable 16ft (5m) with Probe Guard/Weight

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CALIBRATION TRACEABLE TO NIST

N *Indicates products that are availab*

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**42515-T-NISTL: Limited NIST for Certificate of Traceability for 42515 meter only*

***42570-NISTL: Limited NIST for Certificate of Traceability from -4 to 1500F (-20 to 815°C)*

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***GRT300-NISTL: Limited NIST for Certificate of Traceability to 4-wire mode only*
****HT30-NISTL: Limited NIST for Certificate of Traceability to 33 and 75%RH and 21.0°C only*
*****HW30-NISTL: Limited NIST for Certificate of Traceability to stopwatch functions only*

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NIST-traceable calibration services are available on nearly all Extech product categories. Extech offers fast turnaround, global shipping, and convenient calibration reminder notifications. Look for the N logo throughout the catalog denoting products available with NIST-traceable certification. Look for products with N on the part number index pages for pricing.

*NISTL - Limited NIST for Certificate of Traceability to %RH, air temperature and IR
**VIR50-NISTL - Limited NIST for Certificate of Traceability to Type K and max IR Temperature of 1500°F (815°C)

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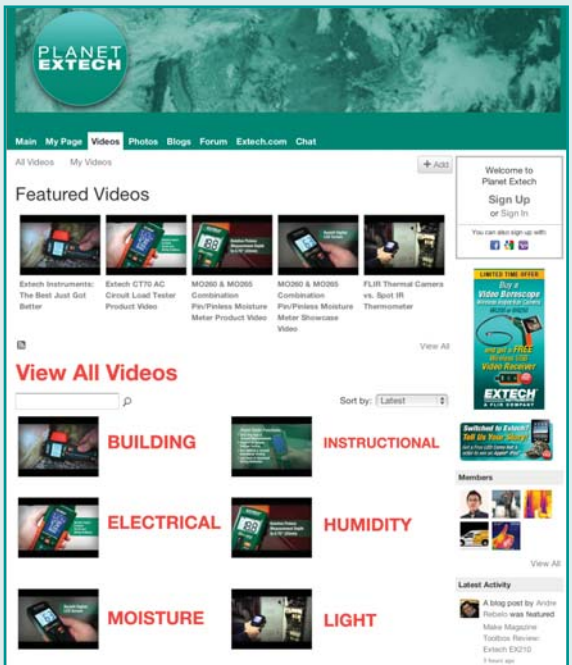

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